

SELF –STUDY PRIMARY MATHEMATICS FOR LEARNERS, PARENTS AND TEACHERS

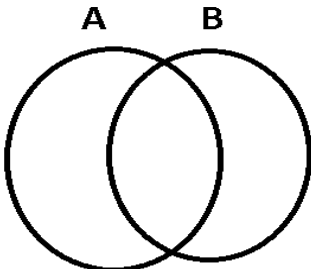
**THIS BOOK IS
DESIGNED TO HELP
THE LEARNERS WITH
REVISION THROUGH
OUT TERM II.**

NAME OF PUPIL: _____

STREAM: _____

WRITTEN BY KALIBO DAN

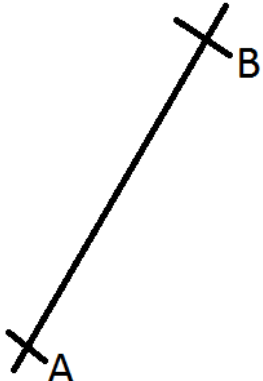
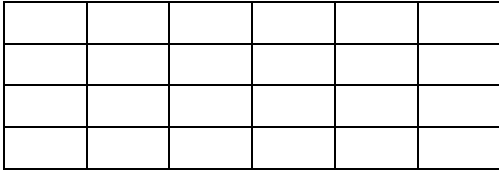
TEST ONE


| | | | |
|----|--|-----|---|
| 1. | Add: $\frac{3}{4} + \frac{1}{4}$ | 2. | What is $\frac{2}{3}$ of 36? |
| 3. | In a class, $\frac{6}{10}$ of the pupils are boys. Find the fraction of girls. | 4. | In the figure below, shade $A \cap B$.  |
| 5. | Given that set $P = \{a, b, c, d, e, f, g\}$ and set $Q = \{a, e, i, o, u\}$. Find $P \cup Q$. | 6. | Write the place value of each digit in 3645 |
| 7. | Write down the value of each digit in 7895 | 8. | Workout: $89,764 - 34,567$ |
| 9. | Find the sum of 2,345 and 45,698. | 10. | Find the sum of the next numbers in the sequence below 0, 2, 4, 6, ____, 10, ____, 14, ____, 18, 20. |

SECTION B

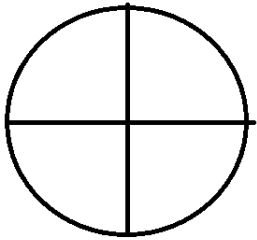
| | | | |
|-----|---|----|--|
| 11. | John had shs. 34500 and he was added more shs. 79500. how much money has he altogether? | b) | James had shs. 43000. David had shs. 52000. How much more did David have than James? |
|-----|---|----|--|

| | | | | | | | | | | | | |
|---|--|----|--|----|---|----|---|---|----|---|---|----|
| c) | A boy bought 5 sets at shs. 1450 each. How much money did he spend altogether? | | | | | | | | | | | |
| 12. Collect the like terms and simplify. | | | | | | | | | | | | |
| a) | $8y + 2a + y + a$ | b) | $4n - 2y + 5n - y$ | | | | | | | | | |
| c) | $9p + 8k - p + k$ | | | | | | | | | | | |
| d) | Given that $a = 2$ and $b = 3$. Find the value of $5b - 3a$ | | | | | | | | | | | |
| 13. Study the magic square below. a) Find the magic sum. | | | | | | | | | | | | |
| <table border="1"><tr><td>17</td><td>—</td><td>19</td></tr><tr><td>—</td><td>—</td><td>14</td></tr><tr><td>9</td><td>—</td><td>15</td></tr></table> | | | | 17 | — | 19 | — | — | 14 | 9 | — | 15 |
| 17 | — | 19 | | | | | | | | | | |
| — | — | 14 | | | | | | | | | | |
| 9 | — | 15 | | | | | | | | | | |
| b) | Fill in the above magic square. | | | | | | | | | | | |
| TEST TWO | | | | | | | | | | | | |
| 1. | In the space below, draw a square. | 2. | How many lines of folding symmetry has a rectangle? (draw and show) | | | | | | | | | |

| | | | |
|------------------|--|-----|--|
| 3. | Draw a line parallel to line AB  | 4. | Find the difference between the missing numbers. 1,3,5,____, 9,11,13, ____17. |
| 5. | Find the square of 6. | 6. | Shade $\frac{2}{3}$ of the figure below.  |
| 7. | If set K = {1,2,3,4,5,6,7,8,9} and set M = {0,2,4,6,8,10,12}. Find $K \cup M$. | 8. | If 10 mangoes cost shs. 1500. Find the cost of each mango. |
| 9. | Find the difference between 8795 and 3456. | 10. | How many days are in 5 weeks? |
| SECTION B | | | |
| 11. | How many centimeters are in 4 metres | b) | Use >, < or = to compare 8m _____ 80cm |

| | | | |
|-----|--|----|--|
| c) | How many half litre bottles of parrafin are in a 5 litre jerrycan? | | |
| 12. | Convert 210 days to weeks. | b) | How many months are in 7 years? |
| c) | Write the time in hours , minutes and seconds.  | d) | Draw a clock face and show aquarter to 4. |
| 13. | On a farm, there are 289goats and 567 cows. How many animals are on the farm? | b) | How many more cows are on the farm than goats. |
| c) | If each cow produces 20 litres of milk a day, how much milk are collected on the farm? | | |

TEST THREE


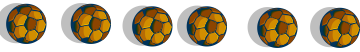
| | | | |
|---|--|----|--|
| 1. | Out of 52 pupils in primary five, $\frac{3}{4}$ have personal drivers while the rest are picked by their parents. How many learners are picked by their parents? | | |
| 2. | Shade $\frac{5}{8}$ in the figure below. | 3. | Write $\frac{5}{10}$ in words. |
|  | | | |
| 4. | Workout: 456×4 | 5. | Set $Q = \{a, b, c\}$. list all the subsets of set Q. |
| 6. | Construct an angle whose supplement is 120° | 7. | How many minutes are in $\frac{1}{3}$ an hour? |
| 8. | How many hours are between 9.30am and 11.10am? | 9. | Workout: $23_{\text{five}} + 14_{\text{five}}$ |

| | | | |
|-----------|---|----|---|
| 10. | Find the GCF of 36 and 24 | | |
| SECTION B | | | |
| 11. | James is 10 years younger than David who is 35 years old. | | |
| a) | How old is james? | b) | Find their total age. |
| c) | How old was David 13 years ago. | | |
| 12. | Find the sum of all the first 5 prime numbers. | b) | Set X ={composite numbers less than 20}. How many members are in set X? |
| c) | Find the next number in the sequence: 1,4,9,16, 25, ____. | | |
| 13. | Given the numeral. 3458 | | |
| a) | Write the above number in words. | b) | Find the sum of the value of 3 and 5 on the above numeral. |

| | | | |
|----|--------------------------------------|----|--|
| c) | Show the above number on the abacus. | d) | Round off the above number to the nearest thousands. |
|----|--------------------------------------|----|--|









































































TEST FOUR

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|----|--|----|---|
| 1. | Convert $\frac{22}{5}$ to a mixed fraction. | 2. | Change $9\frac{3}{7}$ into improper fraction. |
| 3. | Write the next two fractions equivalent to $\frac{5}{7}$. | 4. | Use >, < or = to compare $\frac{3}{4}$ ————— $\frac{4}{5}$ |
| 5. | How many years are in 72 months? | 6. | Using a pencil a ruler and a pair of compasses only, construct an angle of 60° . |

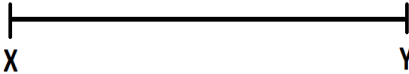
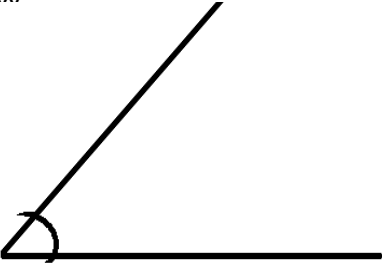

| | | | |
|----|--|-----|--|
| 7. | If  represents 15 balls, how many balls are represented by  | 8. | Add $3 + 5$ using a numberline. |
| 9. | Convert 26kg to gramms. | 10. | Find the area of a rectangle whose length is 18m and width 9m. |

SECTION B

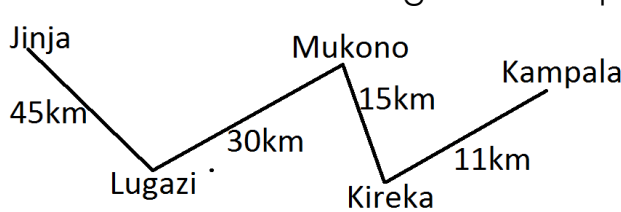
| | | | |
|-----|---|----|---------------------------------|
| 11. | On a farm of 40 animals, $\frac{2}{5}$ are sheep, $\frac{3}{10}$ are goats and the rest are cows. | | |
| a) | Find the number of goats on the farm. | b) | How many sheep are on the farm? |
| c) | How many cows are on the farm? | | |
| 12. | Using a pencil a ruler and a pair of compasses only, construct an equilateral triangle of length 5cm. | | |



| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|----|---|------------------|-----------------|--|--|--|--|--|-----|--|--|--|--|--|--|-----|--|--|--|--|--|--|-----|--|--|--|--|--|--|------|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|
| b | Find its perimeter. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13. | The graph below shows the number of trees planted by a farmer in Sironko district each day. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table><tr><td>Days of the week</td><td colspan="6">Number of trees</td></tr><tr><td>Mon</td><td colspan="6">   </td></tr><tr><td>Tue</td><td colspan="6">    </td></tr><tr><td>Wed</td><td colspan="6">     </td></tr><tr><td>Thur</td><td colspan="6">   </td></tr><tr><td>Fri</td><td colspan="6">   </td></tr><tr><td colspan="7"> Represents 20 trees.</td></tr></table> | | | Days of the week | Number of trees | | | | | | Mon |     | | | | | | Tue |      | | | | | | Wed |       | | | | | | Thur |     | | | | | | Fri |     | | | | | |  Represents 20 trees. | | | | | | |
| Days of the week | Number of trees | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mon |     | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tue |      | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Wed |       | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thur |     | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fri |     | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  Represents 20 trees. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| a) | How many trees were planted on Tuesday? | b) | What was the range of trees planted in the whole week? | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c) | How many trees were planted on Wednesday than Monday? | d) | Find the total number of trees planted in the whole week. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

TEST FIVE

| | | | |
|----|--|-----|---|
| 1. | Construct an angle 90° | 2. | Construct a line perpendicular to line XY.  |
| 3. | Using a protractor, measure the angle below  | 4. | If  represents 20 balls, draw pictures to represent 100 balls. |
| 5. | Find the average of 30, 55, 80, 24 and 46 | 6. | Find the value of p if $p - 8 = 22$ |
| 7. | Collect the like terms. $3xy + 5pm + 2xy - 2pm$. | 8. | A girl bought 3 packets of biscuits at shs. 2000 each and 2 bottles of soda at shs. 1,200 each. How much did she spend? |
| 9. | After buying an item at shs. 45,000, a man sold it at shs. 38700. Find his loss. | 10. | Find the perimeter of a rectangle whose length is 12m and width 9m. |

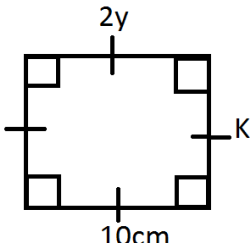
SECTION B

| | | | |
|-----|--|-----|--|
| 11. | Change 4000g to kg. | b) | How many $\frac{3}{4}$ litre bottles of paraffin are in a 15 litre jerrycan? |
| c) | <p>Find the distance from Lugazi to kampala using the route map below.</p>  <pre> graph LR Jinja -- 45km --> Lugazi Lugazi -- 30km --> Mukono Mukono -- 15km --> Kireka Kireka -- 11km --> Kampala </pre> | | |
| 12. | Subtract $\frac{4}{5} - \frac{2}{3}$ | b) | Add: $\frac{2}{5} + \frac{1}{4}$ |
| c) | <p>Arrange $\frac{2}{3}, \frac{1}{2}, \frac{3}{4}$ and $\frac{5}{6}$ in ascending order.</p> | | |
| 13. | <p>Write "thirty-six thousand, four hundred ninety-eight" in figures.</p> | | |
| b) | Expand the above number ; | | |
| i) | Using place values | ii) | Using values |

| | | | |
|-----------------|--|----|---|
| iii) | Using powers | | |
| WEEK TWO | | | |
| TEST SIX | | | |
| 1. | <p>If represents 40 cars, how many cars are represented by</p>  | 2. | <p>Write the number represented by the tallies below.</p>  |
| 3. | Find the mean of 3, 5, 7, 8, 9, 1, 2, 3, 4, 8. | 4. | Prime factorise 24 and give your answer in set notation form. |
| 5. | Find the square root of 36. | 6. | Compare $\frac{3}{4}$ — $\frac{12}{16}$ using $>$, $<$ or $=$ |
| 7. | James had a sugarcane and ate $\frac{3}{4}$ of it. What fraction of the sugarcane remained? | 8. | Solve: $2x + 4 = 10$ |

| | | | |
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| 9. | Given that $y = 5$, $r = 4$ and $p = 3$. Find the value of $\frac{yp}{r-1}$ | 10. | How much change will I get if I buy 3 pencils at shs. 300 each and 4 pens at shs. 500 each if I had shs. 3,000? |
|----|---|-----|---|

SECTION B

| | | | |
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| 11. | Alex had a heap of 500 shilling coins worth 25,000 shillings. | | |
| a) | How many coins did he have | b) | If he changed the coins to one thousand shilling notes, how many notes did he get from 25,000 shillings? |
| c) | Juma bought his radio at shs. 25400 and sold it to Kato at shs. 34500. What was his profit? | | |
| 12. | Study the figure below and answer the questions that follow. | b) | Find the perimeter of the above figure. |
| |  <p>a) Find the value of;</p> <p>i) K</p> <p>ii) y</p> | c) | Calculate its area. |

| | | | | | | | | | | |
|-----|---|----|---|----|---|---|----|---|---|----|
| 13. | <p>Study the magic square below.</p> <p>a) Find the magic sum.</p> <table><tr><td>17</td><td>—</td><td>19</td></tr><tr><td>—</td><td>—</td><td>14</td></tr><tr><td>9</td><td>—</td><td>15</td></tr></table> | 17 | — | 19 | — | — | 14 | 9 | — | 15 |
| 17 | — | 19 | | | | | | | | |
| — | — | 14 | | | | | | | | |
| 9 | — | 15 | | | | | | | | |
| b) | <p>Fill in the above magic box.</p> | | | | | | | | | |

TEST SEVEN

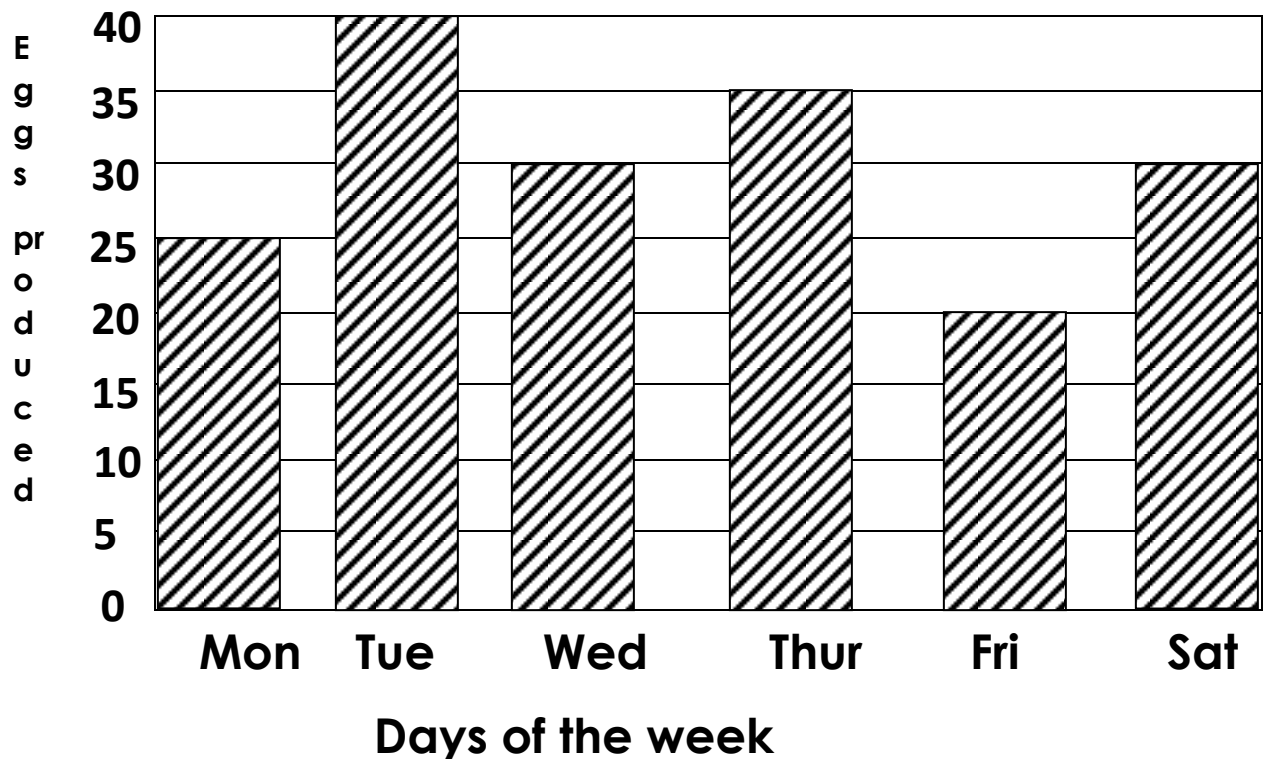
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|----|--|----|--|
| 1. | Add: $3\frac{1}{4} + 4\frac{2}{4}$ | 2. | Subtract: $10\frac{5}{7} - 6\frac{3}{7}$ |
| 3. | Multiply: $\frac{2}{5} \times \frac{7}{9}$ | 4. | In a class of 40 pupils, $\frac{2}{5}$ are boys and the rest are girls. How many girls are in the class? |
| 5. | Change 8 hours to minutes. | 6. | In the space below, draw an angle of 47° |

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| 7. | Roman scored the following marks in a test marked out of 25; 24, 25, 23, 22, 25, 21. Find her range. | 8. | Find the value of m if $2m - 5 = 15$ |
| 9. | Change 8Hg to grams. | 10. | The weight of a lorry is 9 tonnes when loaded with sugarcanes. Calculate the weight of the lorry in kilograms. |

SECTION B

| | | | |
|-----|--|----|--------------------------------|
| 11. | In a society of 60 members, $\frac{2}{5}$ of them drink Novida and the rest drink Pepsi. | | |
| a) | Find the fraction of members who drink Pepsi. | b) | How many members drink Novida? |
| c) | How many more members drink Novida than Pepsi? | | |

12. Study the bar graph about egg production and answer the questions that follow.




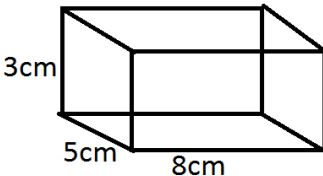
- | | | | |
|----|--|----|---|
| a) | How many eggs were produced on Tuesday and Saturday? | b) | Find the difference in egg production between Wednesday and Friday. |
|----|--|----|---|

- c) Calculate the average egg production for the whole week

| | | | |
|-----|--|----|----------------|
| 13. | Using a ruler, a pencil and a pair of compasses only, construct a rectangle of length 6cm and width 4cm. | | |
| b) | Measure its diagonal. | c) | Find its area. |

TEST EIGHT

| | | | |
|----|---|----|--------------------------------------|
| 1. | On the map, the scale used is that 1cm represents 55km on the actual ground. How far is it from Kampala to Mbale which is 8cm away on the map? | | |
| 2. | Given that  represents 40 cars, draw pictures to represent 240 cars. | 3. | Draw tallies to represent 18. |
| 4. | The cost of one bottle of mineral water is shs. 1,200. How much money will one pay for 7 such bottles of mineral water? | 5. | Workout: $8 - 3$ using a numberline. |

| 6. | Find the volume of the figure below.  | 7. | add: <table><tr><th>Hours</th><th>minutes</th></tr><tr><td>8</td><td>3 5</td></tr><tr><td>+ 4</td><td>4 5</td></tr><tr><td colspan="2"><hr/></td></tr><tr><td colspan="2"><hr/></td></tr></table> | Hours | minutes | 8 | 3 5 | + 4 | 4 5 | <hr/> | | <hr/> | |
|-----------|---|----|--|-------|---------|---|-----|-----|-----|-------|--|-------|--|
| Hours | minutes | | | | | | | | | | | | |
| 8 | 3 5 | | | | | | | | | | | | |
| + 4 | 4 5 | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | | | |
| 8. | Subtract: $9.12 - 3.5$ | 9. | Find the value of p if $\frac{p}{8} = 2$ | | | | | | | | | | |
| 10. | What number has been primefactorised to give: $\{2_1, 2_2, 2_3, 3_1\}$ | | | | | | | | | | | | |
| SECTION B | | | | | | | | | | | | | |
| 11. | Add $123_{\text{five}} + 44_{\text{five}}$ | b) | Subtract : $113_{\text{five}} - 34_{\text{five}}$ | | | | | | | | | | |
| c) | Multiply $12_{\text{five}} \times 3$ | d) | Change 123_{five} to base ten | | | | | | | | | | |
| e) | Convert 34_{ten} to base five | | | | | | | | | | | | |

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| 12. | Using a ruler, a pencil and a pair of compasses only, construct a square of length 5cm. | | |
| b) | Measure its diagonal. | c) | Find its area. |
| 13. | Primefactorize 24 and 18 and write your answer in set notation form. | | |
| b) | Fill the above information to fill in the venn diagram below. | c) | From the venn diagram, find the GCF of 24 and 18 |
| d) | From the venn diagram, find the LCM of 24 and 18 | | |

TEST NINE

The table below shows the marks obtained by Kiyengo in weekly tests

| week | 1 st | 2 nd | 3 rd | 4 th | 5 th | 6 th |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Percentage mark | 67 | 76 | 43 | 61 | 61 | 51 |

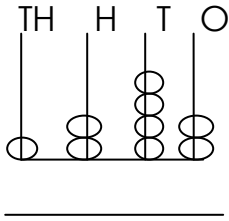
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|----|-----------------------------------|----|---------------------------|
| 1. | Calculate the range of his marks. | 2. | What was his modal score? |
|----|-----------------------------------|----|---------------------------|

- | | | | |
|----|----------------------------|----|-------------------------|
| 3. | Calculate his median mark. | 4. | Find his average score. |
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| 5. | Name the integer marked y on the numberline below.. |
|----|---|

TEST ELEVEN

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|----|--|----|--|
| 1. | Find the sum of thirty - four and sixteen. | 2. | List all the subsets in set $K = \{\text{tree, house}\}$. |
| 3. | Draw tallies to represent 17 | 4. | Simplify; $3k + 2k + k$ |

| | | | |
|----|---|-----|---|
| 5. | Given that set $P = \{a, e, i, o, u\}$ and set $Q = \{a, b, c, d, e, f\}$. Find $n(P \cap Q)$ | 6. | Draw a line segment $AB = 6\text{cm}$. |
| 7. | Workout; weeks days $\begin{array}{r} 7 \qquad 5 \\ +3 \qquad 4 \\ \hline \end{array}$ | 8. | Write the number shown on the abacus below in words.  |
| 9. | Find the next number in the sequence; 1, 3, 6, 10, 15, 21,..... | 10. | How many factors does 12 have? |

SECTION B


| | | | | | | | | | | | | | | | | | |
|-------------|---|----|---|----------|----|----|--|---|--|----|-------------|---|--|---|--|----|--|
| 11. | Study the table below and complete it correctly. Show the working. | | | | | | | | | | | | | | | | |
| | <table><tr><td>Stool(s)</td><td>1</td><td>2</td><td></td><td>5</td><td></td><td>10</td></tr><tr><td>No. of legs</td><td>3</td><td></td><td>9</td><td></td><td>24</td><td></td></tr></table> | | | Stool(s) | 1 | 2 | | 5 | | 10 | No. of legs | 3 | | 9 | | 24 | |
| Stool(s) | 1 | 2 | | 5 | | 10 | | | | | | | | | | | |
| No. of legs | 3 | | 9 | | 24 | | | | | | | | | | | | |
| 12. | Below are cards showing ages of three girls in years. Use them to answer questions that follow | a) | Write the age of the youngest girl in months. | | | | | | | | | | | | | | |

| | | | |
|----|---|----|--|
| b) | Form the smallest and biggest 3-digit number using the above digits. i. Smallest = ii. biggest = | c) | Find the sum of the biggest and smallest 3-digit numbers formed. |
|----|---|----|--|

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| 13. | Using a pair of compasses, a ruler and a sharp pencil only, construct a square MEAT whose perimeter is 36cm. |
|-----|--|

TEST TWELVE

| | | | |
|----|--|----|---|
| 1. | Multiply; 316 by 4. | 2. | Simon is 10 years old. His friend Paul is 3 years older than him. Find their total age. |
| 3. | Reduce $\frac{16}{20}$ to the simplest form. | 4. | Workout; $132_{\text{five}} + 13_{\text{five}}$. |

| | | | |
|----|--|-----|---|
| 5. | Write four thousand, six hundred ninety- four in figures. | 6. | Using a protractor and a ruler, draw an angle of 70° . |
| 7. | Add $+3 + +4$ using a number line. | 8. | Given that  represents 18 balls. Draw balls that represent 54 balls. |
| 9. | Given that $x = 4$, $y = 5$ and $z = 6$. Find the value of $2x + 3y - z$. | 10. | Find the area of a rectangle measuring 6dm by 4dm |

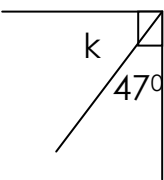
SECTION B

| | | | |
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| 11. | Workout the following; $\frac{2}{3} + \frac{1}{4}$ | ii) | $\frac{3}{7} \times \frac{2}{6}$ |
| b) | In a village, $\frac{2}{3}$ of the people are males and the rest are females. Find the fraction of females in the village | | |

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| 12. | <p>Jacinta went shopping and bought the following items;</p> <ul style="list-style-type: none"> - 2 books at sh.2,000 each - 3 fountain pens at sh.8,000 each - 4 bags at sh.10,000. <p>a). Calculate her total expenditure.</p> <p>b). If she had sh.50,000, find her change.</p> | | |
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|-----|---|-----|---------------------------------|
| 13. | <p>Given that set $K = \{1, 3, 5, 7, 9\}$ and set $N = \{2, 3, 5, 7, 11\}$.</p> <p>i. Represent the above sets on a Venn diagram.</p> | ii | Find $n(K \cup N)$. |
| | | iii | List all subsets in set K only. |

TEST THIRTEEN

| | | | |
|----|--|----|--|
| 1. | Judith is 13 years old. Her brother is 7 years younger than her. Find their total age. | 2. | <p>Find the value of k</p>  |
|----|--|----|--|

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| 3. | Prime factorise 48 and state your answer in set notation. | 4. | Write 9685 in words. |
| 5. | Simplify ; $\frac{2}{5} + \frac{1}{4}$ | 6. | Show that $+3 + -7 = -4$ on a number line. |
| 7. | Find the average of 15, 10, 17 and 18. | 8. | Convert $2\frac{1}{2}$ hours to minutes |
| 9. | Abner bought a pair of shoes at shs. 35,000 and sold it at a profit of shs.7000.Find his selling price for the shoes. | 10. | How many $\frac{3}{4}$ liter bottles can be used to fill a thirty litre jerrycan? |

SECTION B

| | |
|-----|--|
| 11. | <p>In a school with 2400 pupils, $\frac{5}{8}$ of them are boys and the rest are girls.</p> <p>a) Find the fraction of girls in the school.</p> |
|-----|--|

| | | | |
|-----|--|----|---|
| b) | How many girls are in the school? | c) | How many more boys than girls are in the school? |
| 12. | <p>Given the cards below with their values.</p> <p>\boxed{x} = sh.10,000</p> <p>\boxed{w} = sh.20,000</p> <p>\boxed{y} = sh. 5,000</p> <p>\boxed{z} = sh.50,000</p> <p>a) Find the sum of x and y.</p> | b) | Purity has all the cards, how much money does she have? |
| | | c) | Find the value of $3z + w$. |
| 13. | Construct rectangle ROAD where RO = 7cm and OA = 4.2cm. | | |

TEST 14

| | | | |
|----|--|-----|--|
| 1. | Increase 5864 by 264 | 2. | Which digit is in the place value of thousands in the number; 806031? |
| 3. | If $F_P = \{2_1, 3_1, 3_2\}$ and $F_Q = \{2_1, 2_2, 3_1, 3_2\}$. Find the GCF of P and Q. | 4. | If $r = 8$ and $p = 4$, find the square of $(r+p)$. |
| 5. | A tray holds 30 eggs. If $\frac{2}{3}$ of the eggs are sold, how many eggs remain? | 6. | A clock loses 5 seconds every minute. How many seconds will it lose after one hour? |
| 7. | Round off 993 to the nearest hundreds. | 8. | Construct an angle of 135° using a pair of compasses, a ruler and a sharp pencil. |
| 9. | Work out $314_{\text{five}} + 222_{\text{five}}$ | 10. | Ediamu is 24 years. His sister Aipo is 3 years older than him. Find their total age. |

| SECTION B | | | |
|-----------|--|----|--|
| 11. | <p>Mr. Mwanda went shopping and bought the following items;</p> <ul style="list-style-type: none"> - 2kg of rice at shs.3000 per kg - 3liter of milk at shs.2000 per kg - $2\frac{1}{2}$ kg of meat at shs.10,000 per kg. <p>(a) How much did he spend altogether?</p> <p>(b) If he went with sh.50,000, how much change did he get?</p> | | |
| 12. | Ms. Judith drove for 2 hours at a speed of 60km per hour. What distance did she cover? | b) | How long will it take a motorist to cover a journey of 240km at a speed 80km/hr? |
| c) | Change $3\frac{3}{4}$ hours to minutes | | |

| | |
|-----|---|
| 13. | <p>Use a sharp pencil, a ruler, and a pair of compasses to construct triangle LEG where $LE=7\text{cm}$ and $EG=GL=5\text{cm}$</p> <p>Find its perimeter.</p> |
|-----|---|

TEST 14

| | | | |
|----|--|----|---|
| 1. | Reduce ninety-nine by forty- four. | 2. | If set $A = \{a, b, c, d\}$ and $B = \{1, 2, 3, 4\}$, describe the above sets |
| 3. | Find the sum of the value of 7 and the place value of o in the number; 7830. | 4. | Jonathan has 1kg and 200g of sugar. Ashraf has 3kg and 900g of sugar. How much sugar do they have altogether? |
| 5. | Change 240 minutes to hours. | 6. | Express $\frac{3}{5}$ as a decimal. |

| | | | |
|----|--|-----|---|
| 7. | Find the square root of 36. | 8. | Find the median of; 3, 1, 2, 0, 5, 10 and 4. |
| 9. | If 5 pencils cost sh.1000, find the cost of 7 similar pencils. | 10. | Using a pair of compasses, a ruler and a sharp pencil, construct an angle of 45° . |

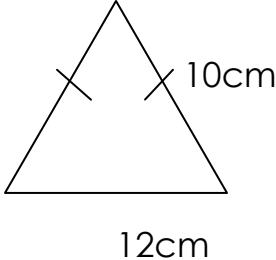
SECTION B

| | | | |
|-----|---|-------------|------------------|
| 11. | Draw the following shapes | | |
| a) | Kite | b) cylinder | c) parallelogram |
| | d) oval | e) Rhombus | |
| 12. | Mukisa scored the following marks in end of term one exams; ENG= 90, MTC = 100, SCI = 85, SST = 95 and CRE = 90.; | | |
| a) | Find his modal mark. | c) | Find his range |

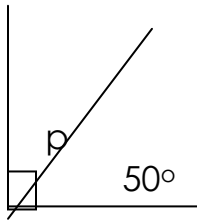
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|-----|--|----|--------------------------|
| b) | Find his median score. | d) | Calculate his mean score |
| 13. | Construct a hexagon in a circle of radius 3.4cm. | | |
| b) | Calculate its diameter. | | |

TEST 15

| | |
|---|--|
| 1. Find the difference between 675 and 971. | 2. Adelyte is 9 years old and Owen is 12 years old. Express their total age in Roman numerals. |
|---|--|

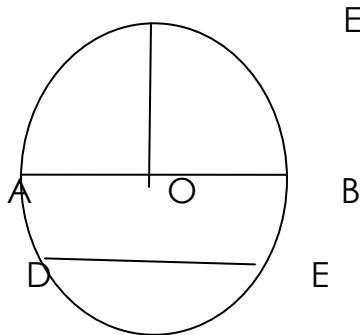
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|--|--|-------------|-----|-----|-------|-----|-------|--|-------|--|---|
| <p>3. The radius of a circle is 7cm. Find the diameter of that circle.</p> | <p>4. If $x = 12$ and $y = 17$. Find the value $2x + 3y$.</p> | | | | | | | | | | |
| <p>5. Work out:</p> <table> <tr> <td>Meters</td><td>Centimeters</td></tr> <tr> <td>1 4</td><td>4 8</td></tr> <tr> <td>+ 2 1</td><td>5 2</td></tr> <tr> <td><hr/></td><td></td></tr> <tr> <td><hr/></td><td></td></tr> </table> | Meters | Centimeters | 1 4 | 4 8 | + 2 1 | 5 2 | <hr/> | | <hr/> | | <p>6. Work out the total distance around the figure below.</p>  |
| Meters | Centimeters | | | | | | | | | | |
| 1 4 | 4 8 | | | | | | | | | | |
| + 2 1 | 5 2 | | | | | | | | | | |
| <hr/> | | | | | | | | | | | |
| <hr/> | | | | | | | | | | | |
| <p>7. Given that $K = \{1, 2, 3, 4, 5\}$ and $B = \{0, 2, 3, 8\}$. Find $n(K \cap B)$.</p> | <p>8. Prime factorise 36 and express its prime factors in set notation.</p> | | | | | | | | | | |

9. Find the value of $2p$ using the figure below.



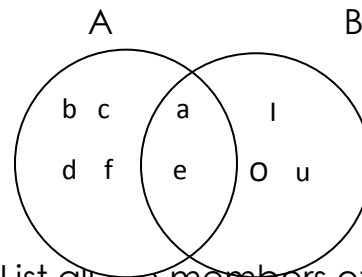
10. Share 48 sweets among Joy, Clive and Whittier.

11. Study the figure below and answer questions that follow.



- a. Name the lines
- $OE =$
 - $DC =$
 - $AB =$
- b. If $OB = 15\text{cm}$, find the length of AB .

12. Study the Venn diagram below and answer questions that follow.



- a. List all the members of;
- $A =$
 - $B =$
 - $A \text{ only} =$
- b. Find $n(A \cup B)$.

13. Given the number 68,431;



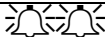





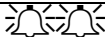




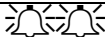


- a) Write the above number in words.
- b) Find the sum of the value of 8 and the place value of 3 in the above number.
- c) What is the place value of 6 in the above number.

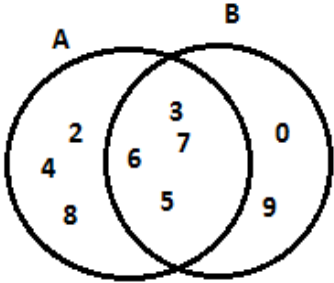
TEST 16

| | | | |
|---|---|----|---|
| 1 | Simplify $7h + 6t - 4h - 3t$ | 6 | Work out the GCF of 9 and 12 |
| 2 | Work out the Value of 5hundreds x 7ones | 7 | Express $2\frac{5}{7}$ as an improper fraction |
| 3 | Write two fractions equivalent to $\frac{3}{9}$ | 8 | 5 cups cost sh.1750. Find the cost of one fish. |
| 4 | Work out the product of 67 and 8 | 9 | Reduce $\frac{8}{16}$ to its lowest terms |
| 5 | Find the LCM of 8 and 6 | 10 | Shade $\frac{3}{4}$ of the diagram below <div style="border: 1px solid black; width: 150px; height: 100px; margin: 10px auto; display: flex; flex-direction: column; align-items: center;"> <div style="border: 1px solid black; width: 100%; height: 100%; display: flex; flex-direction: column;"> <div style="border: 1px solid black; width: 100%; height: 25%;"></div> <div style="border: 1px solid black; width: 100%; height: 25%;"></div> <div style="border: 1px solid black; width: 100%; height: 25%;"></div> <div style="border: 1px solid black; width: 100%; height: 25%;"></div> </div> </div> |

| | | | | | | | | | | | | |
|-------|---|----|----------------------------------|---|---|---|---|---|---|---|---|---|
| 11 | Use < , > Or = to compare the statements below a. 2 + 2.....2 X 2 b. 4 + 0.....4 x 0 c. 8÷ 48 – 4 d. 100cm1meter | | | | | | | | | | | |
| 12 | Below is a magic square. Find all the unknown values in it. <table border="1"><tr><td>6</td><td>1</td><td>8</td></tr><tr><td>Y</td><td>5</td><td>P</td></tr><tr><td>B</td><td>9</td><td>F</td></tr></table> | | | 6 | 1 | 8 | Y | 5 | P | B | 9 | F |
| 6 | 1 | 8 | | | | | | | | | | |
| Y | 5 | P | | | | | | | | | | |
| B | 9 | F | | | | | | | | | | |
| 13.a) | Subtract: $\frac{3}{4} - \frac{3}{6}$ | b) | Add: $\frac{2}{4} + \frac{1}{5}$ | | | | | | | | | |
| 14. | Work out: | | | | | | | | | | | |
| a) | 8 + y = 24 | d) | Divide : 890 ÷ 5 | | | | | | | | | |
| b) | P-13 = 17 | e) | 4tens × 5ones | | | | | | | | | |

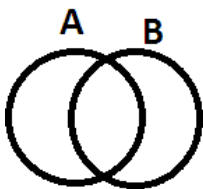
| | | | |
|-----|--|----|--|
| c) | $n \div 6 = 4$ | f) | $7.8 + 0.8 + 56.5$ |
| 15. | . Mr. Murasa went to the market and bought the following items. 3kg of meat at sh 1300 per kg 2kg ofposho at sh1500 per kg 4litres of milk at sh1200per litre 1kg of rice at sh1500 per kg | | |
| a) | How much money did he spend on all the items? | | |
| c) | If he went to the market with shS. 23000. Calculate his balance | | |
| 16. | James is 10 years old now. Peter is 6 years older than James. | | |
| a) | How old is Peter now? | c) | How old was James 3 years ago? |
| b) | Find their total age | d) | How old will Peter be in 7 years time to come? |

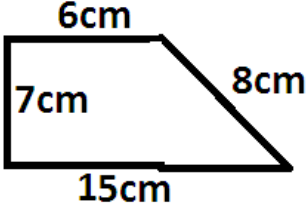
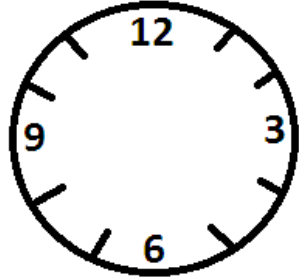
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|------|---|----|---|---|------|---|------|---|------|---|------|---|----|-------------------------------------|
| 17. | In a class there are 24 pupils. $\frac{5}{8}$ of them are girls the rest are boys | | | | | | | | | | | | | |
| a) | Find the fraction of boys in the class. | b) | How many pupils are boys are in the class? | | | | | | | | | | | |
| c) | Find the number of girls in the class | d) | How many more boys are in the class than boys? | | | | | | | | | | | |
| 18. | The graph below shows the number of bulbs sold last week. Use it to questions below <table><tr><td>Mon.</td><td></td></tr><tr><td>Tue.</td><td></td></tr><tr><td>Wed.</td><td></td></tr><tr><td>Thu.</td><td></td></tr><tr><td>Fri.</td><td></td></tr></table> Scale:  = 10 bulbs | | Mon. |  | Tue. |  | Wed. |  | Thu. |  | Fri. |  | a) | How many bulbs were sold on Monday? |
| Mon. |  | | | | | | | | | | | | | |
| Tue. |  | | | | | | | | | | | | | |
| Wed. |  | | | | | | | | | | | | | |
| Thu. |  | | | | | | | | | | | | | |
| Fri. |  | | | | | | | | | | | | | |
| | | b) | How many bulbs were sold on Tuesday and Friday? | | | | | | | | | | | |
| c) | How many more bulbs were sold on Thursday than Wednesday? | | | | | | | | | | | | | |

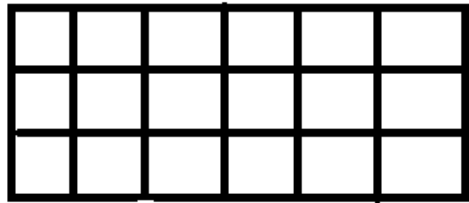
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| 19. | Study the venn diagram below . |  | a) List elements of set A |
| | | | b) List elements of set B |
| c) | Find $A \cap B$ | d) | Find $n(A)$ |
| e) | Find $A - B$ | f) | Find $n(B - A)$ |

TEST 17

| | | | |
|----|---------------------|----|---|
| 1. | Divide: $24 \div 8$ | 2. | Fill in the missing number: $P + 6 = 24$ |
| 3. | Shade $A \cap B$ | 4. | Convert $8\frac{4}{5}$ to an improper fraction. |



| | | | |
|-----|--|-----|---|
| 5. | Find the perimeter of the figure below.  | 6. | If represents 4 oranges, how many pictures will represent 44 oranges? |
| 7. | Find the next number in the sequence: 1, 3, 6, 10, ____, ____. | 8. | Given that set R = {2, 3, 4, 5} and Q = {ball, triangle, rectangle, circle}. How is set R related to set Q? |
| 9. | In the space below, draw a cube. | 10. | Show 8:15 am on the clock face below.  |
| 11. | Construct an angle of 56° using a pencil, a ruler and a protractor. | 12. | Prime factorize 36 and give your answer in subscript form |
| 13. | Change $8\frac{3}{4}$ m to cm. | 14. | Share 1269 books among 3 classes. |


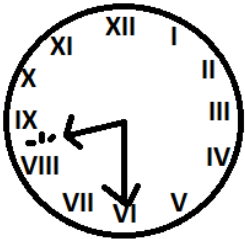
| | | | |
|-----|--|-----|--|
| 15. | Add: $4 + 6 = \underline{\hspace{1cm}}$ (finite7) | 16. | Shade $\frac{2}{3}$  |
| 17. | Jonah is 29 years old. Express his age in Roman Numerals. | 18. | How many minutes are in $2\frac{1}{4}$ hours? |
| 19. | Write 434 _{seven} in words. | 20. | The diameter of a circle is 20cm. find its radius. |
| 21. | Write forty eight thousand, four hundred forty four in figures | 22. | 5 bottles of Rwenzori mineral water cost 5,000/=. Find the cost of 3 bottles of mineral water. |

| | | | |
|-----|--|-----|--|
| 23. | Construct a regular hexagon of sides 4cm using a ruler, a pencil and a pair of compass only. | 24. | Calculate the area of a rectangle whose length is 9dm and width 6dm. |
| 25. | Daniel is 10 years old and Musa is 3 years younger than Daniel. Find their total age | 26. | How many $\frac{1}{2}$ litre bottles can be got from 6 litres of milk? |
| 27. | Draw a line segment of length 4.5cm. | 28. | A shopkeeper sold a mathematical set at sh.1,500 which he bought at sh.1,000. How much was his profit? |
| 29. | What is the least number of mangoes that you can divide by 6 or 9 boys and gives a remainder of 5 mangoes? | 30. | Change 6litres to milliliters. |

| | | | |
|-----|---|-----|--|
| 31. | What number has been expanded to give $(7 \times 10,000) + (8 \times 100) + (6 \times 1)$ | 32. | Change 5 weeks and 6 days to days. |
| 33. | Find the sum of all even numbers between 3 and 12. | 34. | Add: <div style="display: flex; justify-content: center; align-items: center;"> <div style="text-align: right; margin-right: 10px;"> hrs 6 + 2 </div> <div style="text-align: left;"> <div style="display: inline-block; text-align: right; margin-right: 10px;">min 4 5 3 6</div> <div style="border-top: 1px solid black; width: 100px; margin-top: 5px;"></div> <div style="border-top: 1px solid black; width: 100px; margin-top: 5px;"></div> </div> </div> |
| 35. | How many 200 shilling coins can be got from 1000 shillings? | 36. | How many right angles has a rectangle? |
| 37. | List down the factors of 16. | 38. | Simplify: $1\frac{1}{4} + 3\frac{3}{4}$ |
| 39. | Determine the sum of the value of 3 and the value of 8 in the number 3984. | 40. | If Sharifah is 10 years old now, when was she born? |

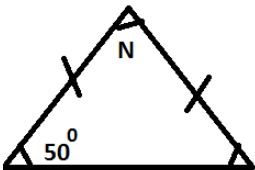
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|-----|--|-----|---|
| 41. | A cockroach covered a distance of 900cm. What distance did it cover in metres? | 42. | Find the next two equivalent fractions of $\frac{4}{5}$. |
| 43. | What is the place value of 9 in 4936? | 44. | Set B={a, e, i, o, u}. Describe set B. |
| 45. | Represent 14 using tallies. | 46. | A tray carries 30 eggs. How many eggs will 5 trays carry? |
| 47. | What is the second day of the week? | 48. | Change 34_{five} to base ten. |
| 49. | Construct an angle of 90° . | 50. | Set P = {2 ₁ , 2 ₂ , 3 ₁ , 5 ₁ }. Find the value of P |

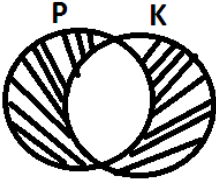
TEST 18

| | | | |
|----|--|----|--|
| 1 | Add $34 + 86$ | 2 | Write $2000 + 500 + 5$ in short form. |
| 3 | Set $X = \{4, 6, 8, 9, 2, 6\}$. Find $n(X)$. | 4 | Fill in the missing number: 40 , 32, 24, 16, 8, ____ |
| 5 | Subtract: $\frac{5}{9} - \frac{1}{3}$. | 6 | Name the shape.  |
| 7 | If represents 10 balls, draw pictures to represent 80 balls. | 8 | How many days are in an ordinary year? |
| 9 | Find the value of P. $P \div 4 = 6$ | 10 | Write XXIV in Hindu Arabic numeral |
| 11 | Moses bought a chicken for shs:1,500 and he later sold it for shs: 3,500. Find his profit. | 12 | Tell the time when we begin the morni  |

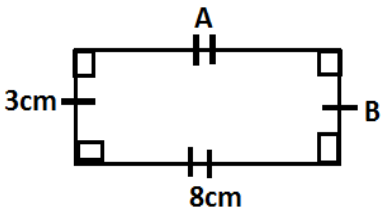
| | | | |
|----|---|----|--|
| 13 | Find the area of a rectangle measuring 6cm by 5cm. | 14 | Construct an angle of 60° in the space below. |
| 15 | The cost of one pen is sh.500. Find the cost of 6 similar pens. | 16 | Show twelve thousand, fifty- eight on the abacus. |
| 17 | Multiply: 453×7 | 18 | Juma had 87 pineapples and he was added more 234 pineapples. How many pineapples does she have altogether? |
| 19 | Find the value of 5 in 45876. | 20 | Round off 54 to the nearest tens. |
| 21 | Write 70654 in words. | 22 | Add $0.76 + 9.8$ |

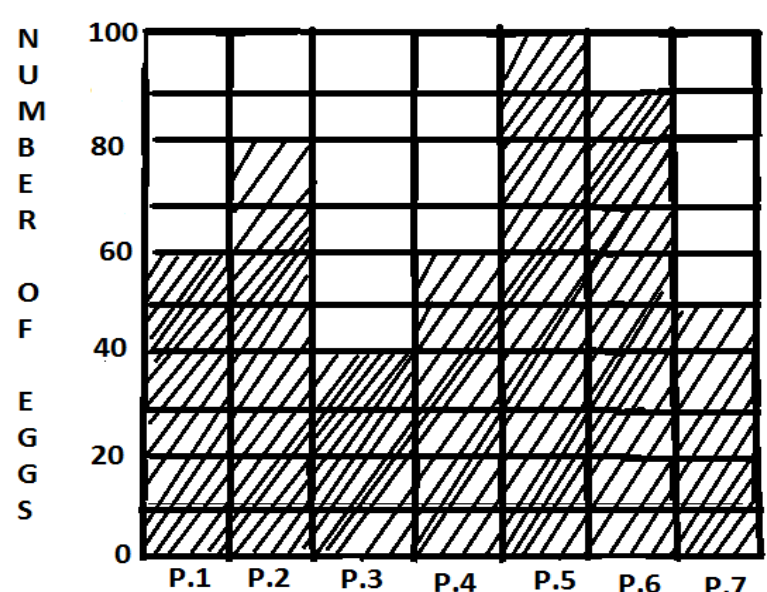
| | | | |
|----|--|----|---|
| 23 | Write $\frac{3}{5}$ as a percentage | 24 | Work out: $2\frac{1}{4} \times \frac{1}{9}$ |
| 25 | Subtract: $2 - 4 = \underline{\hspace{1cm}}$ (finite 5) | 26 | Given that set $A = \{a,b,c,d\}$. How many subsets are in set A? |
| 27 | Calculate the least number of books that can be given to a class of 10 or 6 pupils leaving no remainder. | 28 | Divide 3535 by 5 |
| 29 | Amos sold $\frac{3}{5}$ of his land to Moses and $\frac{1}{4}$ to his neighbor. What fraction of the land did he sell? | 30 | Find the sum of the odd numbers between 0 and 10. |
| 31 | Expand 3546 using powers of 10. | 32 | Simplify: $5x + 4y - 2x + 2y$ |

| | | | |
|----|---|----|---|
| 33 | Find the median of these numbers: 4,3 5,2 6,7,8,9,1. | 34 | Add: $34_{\text{five}} + 22_{\text{five}}$. |
| 35 | Find the sum of the next two numbers in the sequence: 1, 2, 4,7,11,16,____, ____. | 36 | The cost of 6 pens is 4200/=. Find the cost of 3 pen. |
| 37 | Find the value of N  | 38 | Subtract : $432_{\text{five}} - 324_{\text{five}}$. |
| 39 | Change 8 years to months. | 40 | Use > , < or = to complete the following: 5kg of feathers ____5kg of stones. |
| 41 | Find the average of 3, 4, 6, 9, 2, 7, 6, 3. | 42 | How many sides have an equilateral triangle? |

| | | | |
|----|---|----|---|
| 43 | Expand 48673 using place values. | 44 | What is $\frac{5}{10}$ of 60 girls? |
| 45 | Construct an equilateral triangle of sides 4.5cm and find its perimeter. | 46 | Find the volume of a cuboid measuring 8cm by 5cm by 6cm. |
| 47 | A set has 16 subsets, how many elements are in that set? | 48 | Describe the shaded part.  |
| 49 | Arrange $\frac{2}{3}$, $\frac{1}{4}$, $\frac{2}{6}$ and $\frac{3}{4}$ in ascending order. | 50 | My father bought a goat at sh. 45,000 and later sold it at sh.39,000. Find his loss. |

TEST 19

| | | | |
|----|--|----|---|
| 1. | Which number has been expanded to give $4 \times 10,000 + 6 \times 1,000 + 5 \times 10 + 7 \times 1$? | | |
| b) | Show the number 5053 on the abacus. | c) | What is the value of 8 in 2487? |
| 2. | <p>Study the figure below and answer the questions that follow.</p>  | a) | Give the measures of these sides. A _____ B _____ |
| | | b) | Determine its area. |
| c) | Calculate the perimeter of the above figure. | d) | How many times does an insect move around the above rectangle to cover a distance of 132cm? |
| 3. | (a) David drunk $\frac{4}{10}$ of the milk during breaktime and $\frac{5}{10}$ during lunch time. What fraction of the milk was drunk altogether? | | |

| b) | Add: $5\frac{4}{9} + 4\frac{1}{9}$. | c) | Subtract: $6\frac{7}{8} - 3\frac{2}{8}$ | | | | | | | | | | | | | | | | |
|-------|---|----|--|-------|----------------|-----|----|-----|----|-----|----|-----|----|-----|-----|-----|----|-----|----|
| 4. | <p>Study the graph showing the classes Summit p/s which are intrested in collecting eggs from the school farm.</p>  <table><thead><tr><th>Class</th><th>Number of Eggs</th></tr></thead><tbody><tr><td>P.1</td><td>60</td></tr><tr><td>P.2</td><td>80</td></tr><tr><td>P.3</td><td>40</td></tr><tr><td>P.4</td><td>60</td></tr><tr><td>P.5</td><td>100</td></tr><tr><td>P.6</td><td>90</td></tr><tr><td>P.7</td><td>50</td></tr></tbody></table> | | | Class | Number of Eggs | P.1 | 60 | P.2 | 80 | P.3 | 40 | P.4 | 60 | P.5 | 100 | P.6 | 90 | P.7 | 50 |
| Class | Number of Eggs | | | | | | | | | | | | | | | | | | |
| P.1 | 60 | | | | | | | | | | | | | | | | | | |
| P.2 | 80 | | | | | | | | | | | | | | | | | | |
| P.3 | 40 | | | | | | | | | | | | | | | | | | |
| P.4 | 60 | | | | | | | | | | | | | | | | | | |
| P.5 | 100 | | | | | | | | | | | | | | | | | | |
| P.6 | 90 | | | | | | | | | | | | | | | | | | |
| P.7 | 50 | | | | | | | | | | | | | | | | | | |
| a) | How many eggs were collected by P.1? | b) | Which classes collected the same number of eggs? | | | | | | | | | | | | | | | | |
| c) | Find the total number of eggs collected by P.1, P.2 and P.5. | d) | How many more eggs did P.6 collect than P.7? | | | | | | | | | | | | | | | | |
| 5. | (a) John paid sh. 772,000 as school fee and sh. 435,000 as boarding fee. How much did he pay altogether? | | | | | | | | | | | | | | | | | | |

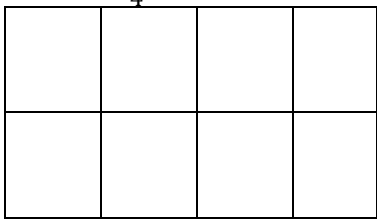
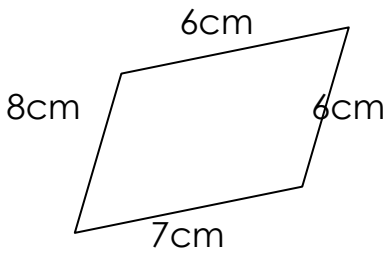
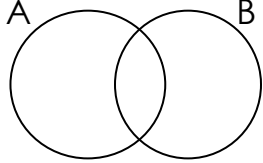
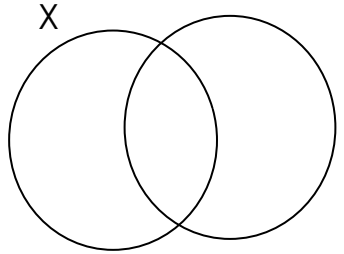
| | | | | | | | | | | | | |
|----|--|----|---------------------------------------|---|---|---|---|---|---|---|---|---|
| b) | Mr. Kudamba earns sh.6,000 per day. How much money does he earn in a week? | c) | Subtract 68 from 86. | | | | | | | | | |
| 6. | a) Round off 458 to the nearest tens. | b) | Expand 8642 using values. | | | | | | | | | |
| c) | Write the value of 7 in the number 7864 | d) | What is the product of 52 and 40? | | | | | | | | | |
| 7. | Study the magic square below and complete it. <div><table><tr><td>4</td><td>X</td><td>2</td></tr><tr><td>P</td><td>5</td><td>Y</td></tr><tr><td>8</td><td>Z</td><td>6</td></tr></table></div> | | | 4 | X | 2 | P | 5 | Y | 8 | Z | 6 |
| 4 | X | 2 | | | | | | | | | | |
| P | 5 | Y | | | | | | | | | | |
| 8 | Z | 6 | | | | | | | | | | |
| 8. | Study the venn diagram below and answer the questions that follow. <div><div><div>X</div><div>Y</div><div><div>a</div><div>b</div><div>c</div><div>d</div><div>e</div><div>f</div><div>g</div></div></div></div> | a) | Find $X \cap Y$. | | | | | | | | | |
| | | b) | List down all the members of set Y. | | | | | | | | | |
| | | c) | How many elements are in $X \cup Y$? | | | | | | | | | |

| | | | | | | | | | | | | | |
|-------|--|--------------|--|----------|-------|--------------|------|------|-------|----------|-----------|-----------|----------|
| d) | Find n (Y - X) | | Find n(X) | | | | | | | | | | |
| 9 | Study the price list below and answer the questions that follow. <table><tr><td>ITEM</td><td>Sugar</td><td>Geometry set</td><td>Rice</td><td>Book</td></tr><tr><td>PRICE</td><td>Sh.2,800</td><td>Sh. 2,000</td><td>Sh. 3,200</td><td>Sh.1,000</td></tr></table> | | | ITEM | Sugar | Geometry set | Rice | Book | PRICE | Sh.2,800 | Sh. 2,000 | Sh. 3,200 | Sh.1,000 |
| ITEM | Sugar | Geometry set | Rice | Book | | | | | | | | | |
| PRICE | Sh.2,800 | Sh. 2,000 | Sh. 3,200 | Sh.1,000 | | | | | | | | | |
| a) | Dorcas bought a kg of sugar and a book. How much did she pay? | | | | | | | | | | | | |
| b) | Find the total cost of a kg of rice and a geometry set. | | | | | | | | | | | | |
| c) | How much will Teddy pay for 2kg of rice, 3kg of sugar and 4 books? | | | | | | | | | | | | |
| d)i) | Find how much will James pay all the items above. | ii) | If James went with sh.10000, calculate his change. | | | | | | | | | | |
| 10 | Okao scored the following marks in the weekly test. ENG – 81 MTC - 73 SST – 92 SCI – 79 | a) | In which subject did he score The highest mark? _____ The lowest mark? _____ | | | | | | | | | | |

| | | | |
|-----|---|----|---|
| b) | Find the difference between his highest and lowest mark. | c) | Find the total marks scored by Okao in all subjects. |
| 11. | Primary four pupils were asked which animals they like most. It was found 34 pupils like sheep, 90 pupils like cows, 60 pupils like goats and 46 pupils like rabbits. | | |
| a) | Which animal is most liked? | b) | Find the total number of pupils who like goats and sheep. |
| c) | Find the total number of pupils in a P.4 class. | | |
| 12. | Arrange $\frac{1}{2}, \frac{1}{4}, \frac{1}{3}$ in descending order. | b) | Workout: $\frac{2}{3} + \frac{2}{5}$ |

TEST 20

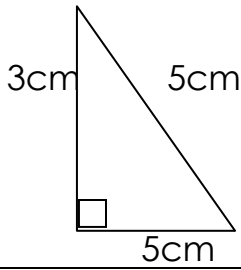
| | | | |
|----|----------------|----|---------------------------------|
| 1. | Add: $27 + 49$ | 2. | How many months are in 6 years? |
|----|----------------|----|---------------------------------|

| | | | |
|-----|---|-----|---|
| 3. | Shade $\frac{2}{4}$ in the diagram  | 4. | Calculate the distance around this figure.  |
| 5. | Jesca is 10 years old. Joan is 21 years old. Find their age difference | 6. | Simplify: $4p + 6X + 3p + 4X$ |
| 7. | Expand 493 using place values. | 8. | Write 24 in Roman numeral |
| 9. | In the diagram below, shade $A \cup B$  | 10. | Round off 356 to the nearest tens. |
| 11. | Given that $X = \{1,2,3,4,5,6,7\}$ and $Y = \{0,2,4,6,8,10\}$ | | |
| a) | Show this information on the Venn diagram below:  | b) | Find $X \cap Y$ |
| | | c) | Find $X - Y$ |

| | | | |
|-----------|---|----|--|
| d) | Find $n(X - Y)$ | e) | How many elements are in set Y only? |
| 12. a) | Find the LCM of 4 and 6 | b) | Round off 234 to the nearest hundreds. |
| 13. a) | Write 46753 in words | c) | What is the place value of 6 in 3.46? |
| b) | Find the sum of the value of 8 and 4 in 3468. | d) | Write 45.45 in words. |
| 14. | Divide 234 by 3 | b) | Multiply 34 by 10 |

TEST 21

| | | | |
|------|---|----|---|
| 1. | Given that $X = \{1,2,3,4,5,6,7\}$ and $Y = \{0,2,4,6,8,10\}$ | | |
| a) | Show this information on the Venn diagram. | b) | Find $X \cap Y$ |
| c) | Find $n(X \cup Y)$ | d) | List the elements of set $X - Y$ |
| 2.a) | Find the LCM of 8 and 6 | b) | Find the sum of the 4 th and 6 th even numbers. |
| 3.a) | What is the product of these missing numbers? 1, 3, 5, __, 9, 11, 13, __, 17 | b) | Add: $\frac{4}{5} + \frac{2}{3}$ |
| 4.a) | What is $\frac{2}{3}$ of 24 oranges? | b) | Change 2 hours to minutes. |

| | | | |
|----|--|-----|---|
| 5. | Find the perimeter of the triangle below:  | 6. | Joan ate $\frac{3}{7}$ of an orange. What fraction did she remain with? |
| 7. | Arrange: $\frac{2}{3}$, $\frac{1}{4}$, and $\frac{5}{6}$ in ascending order. | 8. | Tom had sh. 35,000; he spent sh. 2,350 buying items from the shop. How much did he remain with? |
| 9. | Multiply: 404 by 4 | 10. | Write the sum of the value of 6 and 7 in 6327 |

TEST 22

1. Add: $42 + 15$.

3. Find the value of x :

$$x + 6 = 9$$

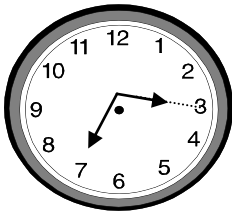
2. Write 7654 in words.

4. A boy bought a book at 1400/= and sold it at 1700/=. What was his profit?

5. Change $\frac{56}{10}$ to a mixed fraction.

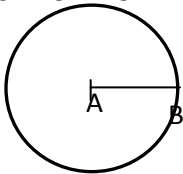
12. Find the perimeter of a triangle measuring 19cm, 15cm and 16cm.

6. What is the morning time shown on the clock face?



13. Expand 4286 using values.

7. Name the line of the circle AB.



14. Find the value of 8 in 4872.

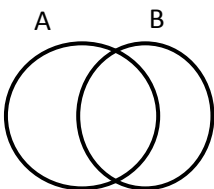
8. Write 243_{five} in words

15. Add: $6\frac{3}{8} + 9\frac{4}{8}$.

9. Write down a set of the first four even numbers.

16. The cost of one pen is shs.550. Find the cost of 4 similar pens.

10. Shade $A \cup B$ in the venn diagram below.



17. Construct an angle of 90° in the space below.

11. Change 19m to cm.

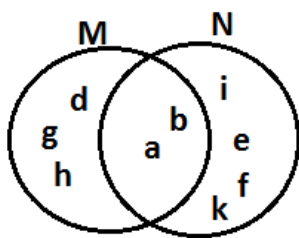
18. Write 29 in Roman numeral.

20. Find the sum of the smallest and largest numeral formed using the digits 4, 8, 2.

19. How many right angles has a rectangle?

SECTION B

21. Use the venn diagram below to answer the questions that follow.

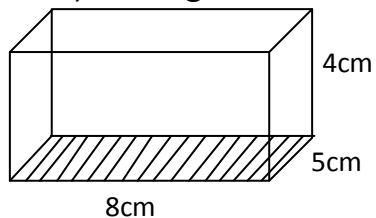


a) List the elements of set m. (1mk)

b). List the elements of set set N complement (1mk)

c). Find $n(M \cap N)$ (2mk)

22. Study the figure below and answer the questions that follow.



a) Calculate the area of the shaded part.(2mks)

b). Work out the volume of the figure above.(3mks)

23. Work out the following. ($1\frac{1}{2}$ mks each)

a) $P + 4 = 5$

c) $X \div 4 = 5$

b) $K - 4 = 5$

d) $F \times 4 = 20$.

24. Given the number 4682

a) Find the place value of 8. (2mks)

b) Find the sum of the value of 4 and the value of 6 in 4682. (3mks)

25. Use $>$, $<$ or $=$ to complete the following

a) $2 + 5$ _____ 2×5 .

b) 1 kg of stones _____ 1 kg of feathers.

c) A fortnight _____ a week

d) 4kg _____ 4000g

26. Study the shopping list below and use it to answer the questions that follow.

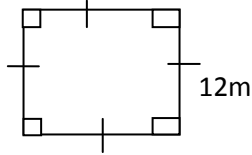
| Item | Unit price |
|-------|------------|
| Salt | Sh.500 |
| Soap | Sh.600 |
| Rice | Sh. 2,500 |
| Bread | Sh. 3,200 |
| Sugar | Sh. 3,000 |

a) Find the cost of 1kg of salt, 1 kg of sugar and 1 kg of rice. (2mks)

b) How much will David pay for 3 bars of soap and 2 loaves of bread? (3mks)

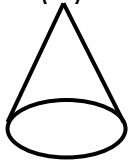
27. (a) Find the perimeter of a rectangle whose length is 9cm and width 5cm.(2mks)

(b) Find the area of a square below.(2mks)

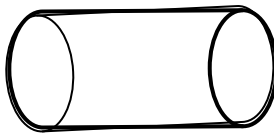


28. (a) Name the figures below. (2mks)

i)



ii)



(b) Draw these shapes.(2mks)

i) Trapezium

ii) Square

29. (a) Change 4km to metres.(2mks)

(b) Change 11 weeks to days.(2mks)

(c) Convert 5 hours to minutes.(2mks)

30. (a) Change $8\frac{4}{5}$ to an improper fraction.(2mks)

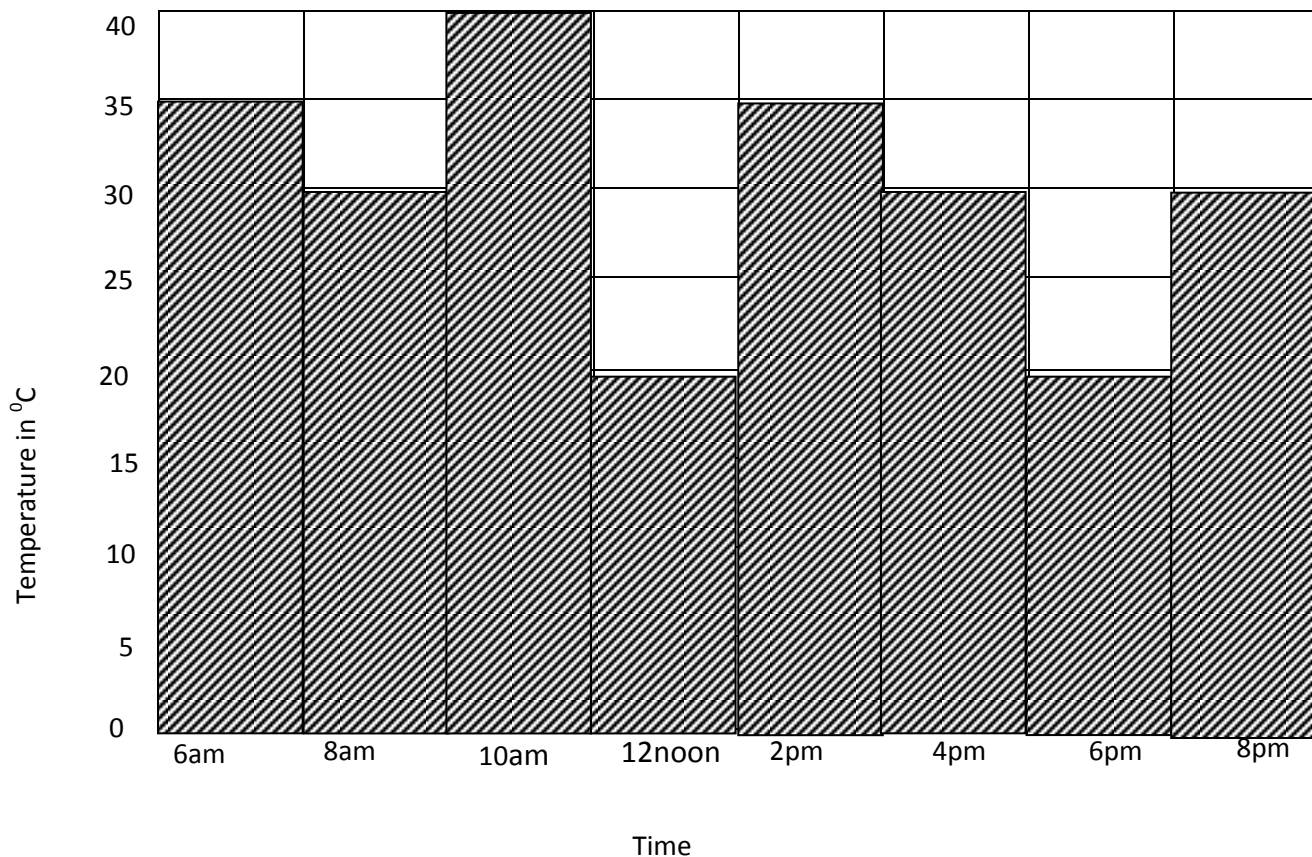
(b) Arrange $\frac{1}{2}$, $\frac{3}{4}$, $\frac{2}{3}$ starting with the biggest.(2mks)

(c) Subtract $\frac{4}{5} - \frac{2}{4}$ (2mks)

31. (a) Using a pair of compasses, a ruler and a pencil only, construct an equilateral triangle of sides 5cm. (4mks)

(c) Determine its perimeter. (2mks)


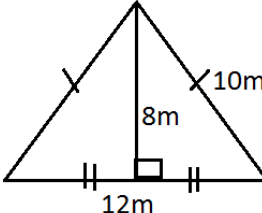
32. The graph below shows the body temperature of a patient taken at after every 2 hours. Study it and answer the questions that follow.



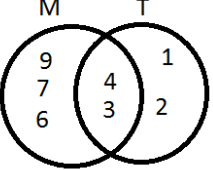
- a) What was the body temperature of the patient at 6:00am? (2mks)
- b) What was the difference between the Highest temperature and the lowest temperature ? (2mks)
- c) Find the between sum of the temperature recorded at 6:00am and 6:00pm. (2mks)

TEST 23

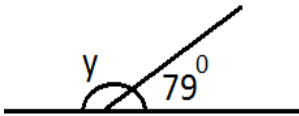
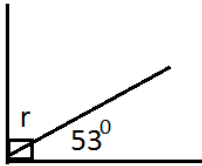
| | | | |
|-----|---|-----|---|
| 1. | Write 408 in words | 2. | If set $Y = \{\text{ball, book, pen}\}$. Find the number of subsets set Y has. |
| 3. | Change $3\frac{2}{5}$ into an improper fraction. | 4. | Solve for K: $2k - 2 = 10$ |
| 5. | Find the next number in the sequence. 4, 11, 16, 23, 28, 35, ____. | 6. | Work out the average of 9 and 5. |
| 7. | Calculate angle marked P. | 8. | Find the LCM of 10 and 15. |
| 9. | Add: $1\ 3_{\text{five}} + 4\ 4_{\text{five}}$ | 10. | Express 42 into Roman numerals. |
| 11. | Find the difference between the value of 7 and the place value of 9 in 2759 respectively. | 12. | Round off 6,951 to the nearest hundreds. |

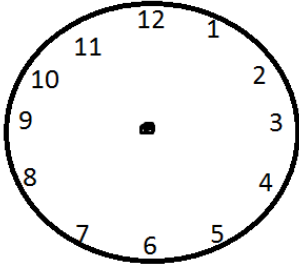
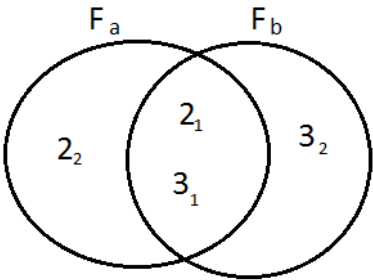
| | | | |
|-----|---|-----|---|
| 13. | Change 70gm into kilograms. | 14. | Draw an isosceles trapezium and show the lines of folding symmetry. |
| 15. | Simplify: $2a + 4b + 5a$ | 16. | Describe the shaded region in the venn diagram  |
| 17. | An assembly began at 8.30 am and lasted for forty minutes. When did it end? | 18. | Find the perimeter of the shape below.  |
| 19. | Given that \square represents 15 boxes, how many boxes are represented by $\square \square \square$? | 20. | Use a sharp pencil, a ruler and a protractor to draw an angle of 73° . |

SECTION B

| | | | |
|-----|--|----|---|
| 21. | Use the venn diagram below to answer the questions that follow. (1 mk each)  | a) | Write down all the members of set M. |
| | | b) | Find set $(M \cap T)$ |
| c) | Find $n(M \cup T)$ | d) | List down the elements of set $(M - T)$ |

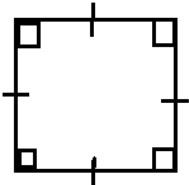
| | | | |
|-----------|--|----|---|
| 22. | Lydia's salary is 120,000/=. What is $\frac{2}{3}$ of her salary? (2mks) | b) | Arrange $\frac{2}{3}, \frac{1}{4}$ and $\frac{5}{6}$ in descending order. (2mks) |
| 23. | With the help of a ruler, a pencil and a pair of compasses only, construct a rectangle PQRS in which PQ is 5cm and PR is 3 cm. (4mks) | | |
| b) | Calculate its area. (1mk) | c) | Find its perimeter. (1mk) |
| 24. | Given the digits 7, 2 and 9, form all three digit numerals below 700. (2mks) | b) | Express 592 using place values. (2mks) |
| 25. a) | Find the value of r. $\frac{2r}{3} = 8$ (2mks) | b) | Use either < or > to complete. (1 mk) $2 + 2 + 2$ _____ 2^3 |

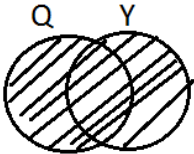
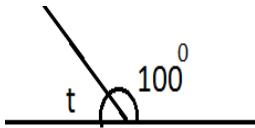
| | | | |
|-----------|---|-----|---|
| c) | If $a=3$, $b=5$ and $c=4$. | | |
| i) | Evaluate $ac - b$. (1mk) | ii) | Simplify: $\frac{a}{b} + \frac{c}{b}$ (2mks) |
| 26. a) | Simplify: $\frac{2}{3} - \frac{1}{4} + \frac{1}{6}$ (2mks) | b) | Change $\frac{3}{5}$ into a decimal fraction. (1mk) |
| c) | Find the reciprocal of $\frac{3}{5}$. (1mk) | d) | Subtract: $1 - \frac{3}{5}$ (1mk) |
| 27. a) | Calculate for angle y . (2mks)  | b) | Find angle r . (2mks)  |
| c) | The 3 angles in a triangle are 56° , 34° and K . Find the value of K (2mks) | | |

| | | | |
|-----------|---|----|--|
| 28. a) | A bus covered 180km in 2 hours. Calculate its speed in km/hr. (2mks) | | |
| b) | Draw a clock face and show 12 o'clock (1mk)  | c) | Subtract: Weeks Days (1mk) $\begin{array}{r} 9 \qquad 3 \\ - 4 \qquad 6 \\ \hline \end{array}$ |
| 29. | Use the venn diagram below to answer the questions that follow.  | a) | Find the value of b. (1mk) |
| | | b) | Find the value of a. (1mk) |
| c) | Find the LCM of a and b. (2mks) | d) | Find the GCF of a and b. (1mk) |
| 30. | A girl obtained the following points during a volleyball game. 4, 6, 9, 5, 7. | | |
| a) | Workout her range. (1mk) | b) | Find his modal frequency score. (2mks) |

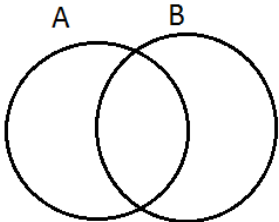
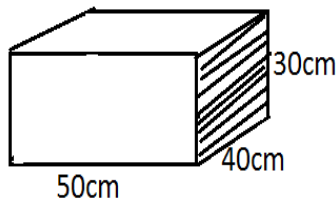
| | | | |
|-----------|--|-----|--|
| c) | Calculate her mean score. (2mks) | d) | What was her median score? (1mk) |
| 31. a) | A man bought a pair of shoes at sh. 35,000 and sold it at sh. 40,000. How much profit did he make? (2mks) | b) | Namudigu bought a dress at sh.6,000 and sold it at sh.4,500. What loss did she make? (2mks) |
| 32. a) | What is the probability of tossing a coin once and a head shows on top? (2mks) | | |
| b) | When a dice is tossed once, the sample space is as follows. {1, 2, 3, 4, 5, 6} | | |
| i) | What is the probability of an even number showing on top? (2mks) | ii) | What is the probability of getting a number less than 5 on top? (2mks) |

TEST 24

| | | | |
|----|--|-----|--|
| 1. | Divide 14 by 7. | 2. | Find the average of 4, 6, 0, and 2. |
| 3. | Change $2\frac{1}{2}$ into an improper fraction. | 4. | What is $\frac{2}{3}$ of 12 balls? |
| 5. | Under which type of polygons is this  | 6. | A man shared 20 oranges equally among 9 boys. How many oranges did he remain with? |
| 7. | Solve: $2y + 3 = 9$. | 8. | What is the square root of 16? |
| 9. | Change 2 hours to minutes. | 10. | Expand 4372 using powers. |

| | | | |
|-----|--|-----|---|
| 11. | Describe the shaded region.  | 12. | Given that $2 - 4 = X \pmod{5}$. Find X |
| 13. | Write XIX in Hindu Arabic numeral. | 14. | The average weight of 4 girls is 20kg. Find their total weight. |
| 15. | Find the angle marked t in degrees.  | 16. | Add $323_{\text{five}} + 121_{\text{five}}$ |
| 17. | Subtract $\frac{85}{10} - \frac{43}{10}$ and write your answer as a decimal fraction. | 18. | Construct an angle of 60° in the space below. |
| 19. | Simplify $3a + a + 2a - 4a$. | 20. | Simplify: $\frac{3}{4} + \frac{4}{5}$ |

SECTION B

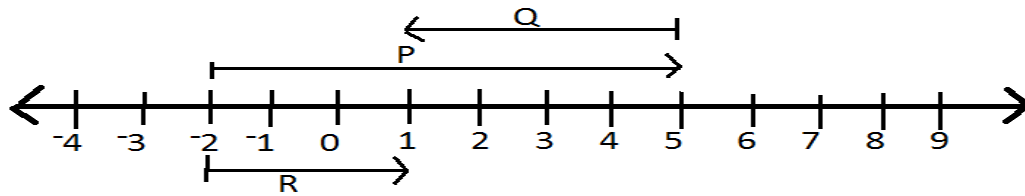
| | | | |
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| 21. | <p>Given that $A = \{1, 2, 3, 4\}$ and $B = \{0, 2, 4, 5, 7\}$.</p> <p>a) Represent the above information on the venn diagram below.</p>  | b) | Find $A \cap B$. |
| | | c) | List the elements in $A - B$. |
| | | d) | Find $n(A \cup B)$ |
| 22. | <p>The figure below is of a water tank, use it to answer the questions that follow.</p>  | a) | <p>Find the number of:</p> <p>I. Faces _____</p> <p>II. Edges _____</p> <p>III. Vertices _____</p> |
| | | b) | Find the area of the shaded part. |
| c) | Calculate the volume of water in the tank | d) | What is the capacity of the water in the tank in litres? |
| 23. | <p>Kagwa went shopping with a note having a nest and bought the following items.</p> <ul style="list-style-type: none"> - 3 pens at sh. 200 @ pen. - 4 rubbers at sh. 250 per rubber. - 3 exercise books at sh. 300 each book. - 2 sets at sh. 2000 | | |
| a) | How much did he spend? | | |

| | | | |
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| b) | Calculate the amount of money Kagwa remained with. | c) | If Kagwa wants 5 sets, how much will he pay? |
| 24. | Given that $x = 2$, $y = 3$ and $r = 4$, find; | | |
| a) | $X + y$ | b) | $\frac{r}{x}$ |
| c) | $r - y$ | d) | $xy + xr$ |
| 25. | In a class of 40 pupils, $\frac{3}{4}$ of them have uniforms and the rest do not have uniforms. a) What fraction of the pupils has no uniforms? | b) | How many pupils do not have uniforms? |
| c) | How many pupils have uniforms? | d) | If a child is picked at random to clean the chalkboard, find the probability that the pupil picked has a uniform. |

| | | | |
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| 26. | What is the GCF of 12 and 20? | | |
| b) | Find the LCM of 6 and 8. | c) | Find the sum of the first five prime numbers. |
| 27. | Tom is 12 years old. Kato is 5 years younger than Tom. | | |
| a) | How old is Kato? | b) | Find their total age. |
| c) | In which year was Tom born? | d) | After how many years will their total age be 49 years? |
| 28. | a) Arrange 2.2, 0.22 and 0.2 in ascending order. | | |

| | | | |
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| b) | Express 4.2 as a mixed fraction. | c) | Change $\frac{2}{4}$ into a decimal fraction. |
|----|----------------------------------|----|---|

29. Use the number line below to answer the questions that follow.



| | | | |
|----|---|----|---|
| a) | What integers are represented by; i) P? ii) Q? iii) R? | b) | Write a mathematical statement represented on the numberline above. |
|----|---|----|---|

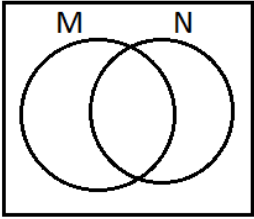
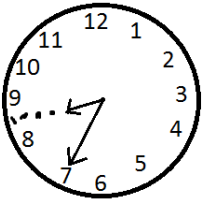

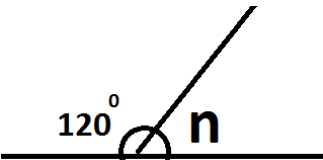
30. Given the following digits. 2,9,4,3.

| | | | |
|----|--|----|---|
| a) | Form the largest number. | b) | Form the smallest number. |
| c) | Find the sum of the largest and smallest numeral formed. | d) | Prime factorize 24 using a factor tree and write the prime factors in power form. |

| | | | |
|-----|---|----|---|
| 31. | Study the figure below. | a) | Name the above figure. |
| | | b) | Calculate the distance around the above figure. |
| b) | Find the area of the figure above. | | |
| 32. | Using a pencil, a ruler and a pair of compasses only, construct a square ABCD of sides 5cm. | | |

TEST 25

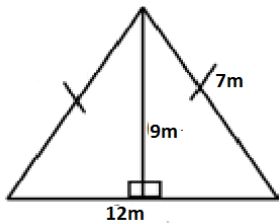
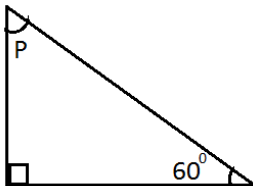
| | | | |
|----|---------------------|----|---|
| 1. | Workout: $52 + 147$ | 2. | What is the place value of 4 in 124_{five} ? |
|----|---------------------|----|---|

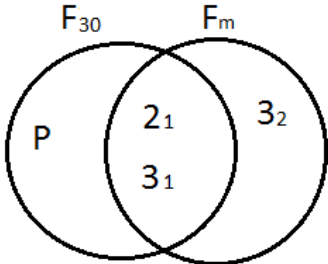
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| 3. | Find the next number in the sequence: 21, 18, 15, 12, _____, _____ | 4. | Solve for y: $y + 6 = 20$. |
| 5. | Using a pencil, a ruler and a protractor only, construct an angle of 90° . | 6. | Shade $(M \cap N)$ in the venn diagram below.  |
| 7. | Tell the time shown on the clockface.  | 8. | Add these fractions. $1\frac{1}{3} + 2\frac{1}{6}$ |
| 9. | Expand 432_{seven} using powers. | 10. | Given that  represents 10 pencils. How many such picto symbols are represented by 70 pencils? |
| 11. | Find the value of n in degrees.  | 12. | In a class of 180 pupils, $\frac{3}{5}$ are girls. How many boys are in the class? |

| | | | |
|-----|---|-----|--|
| 13. | Given that $G=\{2,3,5,7\}$. Find the number of subsets of set G. | 14. | A man bought a cow at sh. 720,000 which he later sold at a profit of sh. 8,000. At what price did he sell the cow? |
| 15. | Prime factorise 18. | 16. | A car covered a distance in $1\frac{1}{2}$ hours at a speed of 80km/hr. what distance did he cover? |
| 17. | Expand 3456 using powers of ten. | 18. | A farmer collects 21 litres of milk in a day. How many litres of milk will he collect in a week? |
| 19. | Change 2.5litres to centilitres. | 20. | Work out: $2\ 2\ 3_{\text{five}} - 1\ 2\ 4_{\text{five}}$ |

| | | | |
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| 21. | a) Write $\frac{2}{8}$ as a decimal fraction. | b) | A third of a number is 20. What is the number? |
| c) | Workout: $\frac{1}{2} + \frac{2}{5}$ | | |
| 22. | Given that set K = {multiples of 3 less than 18} and set J = {multiples of 2 less than 14}. | | |
| | | b) | How many people sell clothes? |
| c) | How many people sell food? | d) | How many people sell only one type of item? |
| 23. | Use >, < or = to complete | | |
| a) | 100cm _____ 1m | b) | 1 kg of sand _____ a kg of feathers |
| c) | $\frac{2}{4}$ _____ $\frac{4}{2}$ | d) | 10 _____ -10 |
| 24. | a) A mother is 3p years old and the daughter is p years old. If their total age is 40 years, how old is the mother? | | |

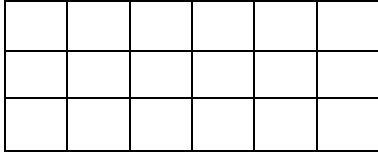
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| b) | Share 104 oranges equally among 4 girls. | c) | Multiply: $3\ 4\ 5 \times 7$ |
| 25. | How many right angles are in 450° ? | | |
| b) | Moses was facing East, he turned clockwise to South East. Through what angle did he turn? | c) | Opukiro left his home while facing North East and turned anticlockwise at an angle of 135° . In which direction is he facing? |
| 26. | How many steps are there between -2 and +5? | | |
| b) | What is the additive inverse of +5? | c) | Simplify $5 - -8$ using a numberline. |


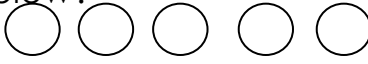
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|-----|---|-----|---|--|-----|-----|--|---|-----|---|---|-----|--|-------|--|--|-------|--|
| 27. | Study the figure below and answer the questions that follow.  | a) | Name the above type of triangle. | | | | | | | | | | | | | | | |
| | | b) | How many lines of folding symmetry has the named figure? | | | | | | | | | | | | | | | |
| c) | Find the perimeter of the above figure. | d) | Calculate its area. | | | | | | | | | | | | | | | |
| 28. | Find the complement of 40° . | b) | Find the value of P  | | | | | | | | | | | | | | | |
| 29. | How many seconds are in one hour? | b) | Convert 18 weeks to days. | | | | | | | | | | | | | | | |
| c) | Change 240 minutes to hours. | d) | Subtract: <table><tr><td></td><td>Hrs</td><td>Min</td></tr><tr><td></td><td>6</td><td>4 0</td></tr><tr><td>–</td><td>3</td><td>5 0</td></tr><tr><td></td><td colspan="2"><hr/></td></tr><tr><td></td><td colspan="2"><hr/></td></tr></table> | | Hrs | Min | | 6 | 4 0 | – | 3 | 5 0 | | <hr/> | | | <hr/> | |
| | Hrs | Min | | | | | | | | | | | | | | | | |
| | 6 | 4 0 | | | | | | | | | | | | | | | | |
| – | 3 | 5 0 | | | | | | | | | | | | | | | | |
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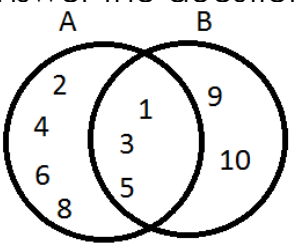
| | | | |
|-----|---|----|----------------------------|
| 30. | A boy scored the following marks. ENG- 90, SST- 60, SCIE – 78, MTC – 92, R.E – 90. | | |
| a) | What is the range? | b) | Calculate the median mark. |
| c) | Find the modal mark. | d) | Find the mean mark. |
| 31. | <p>Use the venn diagram below to answer the questions that follow.</p>  | | |
| | | a) | Find the value of m. |
| | | b) | Find the value of P. |
| c) | Find the GCF of 30 and m. | d) | Find the LCM of 30 and m. |
| 32. | Using a pencil, a ruler and a compass only, construct an equilateral triangle of length 5cm. | | |

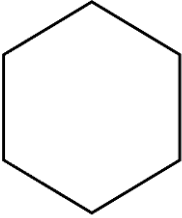

| | |
|----|---------------------|
| b) | Find its perimeter. |
|----|---------------------|

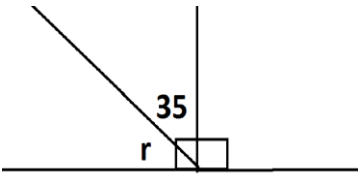
TEST 26

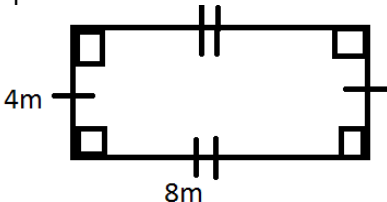
| | | | |
|----|---|----|--|
| 1. | Workout: $12 \div 6$ | 2. | Write XXIV in Hindu Arabic numeral. |
| 3. | Given that: $A = \{2, 3, 4, 5, 6\}$ and $B = \{1, 3, 5, 7\}$. Find $n(A \cap B)$ | 4. | Shade $\frac{2}{3}$ of the diagram below.  |
| 5. | A book costs sh. 1000. Find the cost of 4 similar books. | 6. | How many lines of folding symmetry does an isosceles triangle have? |
| 7. | A rectangular room has the length 6cm and area 42cm^2 . Find its width. | 8. | Calculate the average of 8, 7, 5, 4 and 7. |

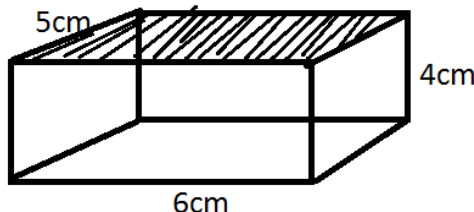
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| 9. | Change $\frac{25}{7}$ to a mixed fraction. | 10. | Expand 638 using values. |
| 11. | Add: Weeks Days 2 5 + 3 6 _____ _____ | 12. | What is the square root of 36? |
| 13. | A car covered a journey at a speed of 60km/hr for 2 hours. What distance did it cover? | 14. | Draw an abacus and show 5031. |
| 15. | Simplify: $4k + y + 10k + 3y - y$ | 16. | Subtract: 4 2 2 <small>five</small> - 1 3 3 <small>five</small> |
| 17. | If  represents 8 oranges how many oranges are represented by the pictures below?  | 18. | What is the LCM of 9 and 6? |
| 19. | Tell the time using 45 past 4 o'clock". | 20. | Andrew sold his cow at 180,000/= and made a loss of 70,000/=. What was his buying price? |

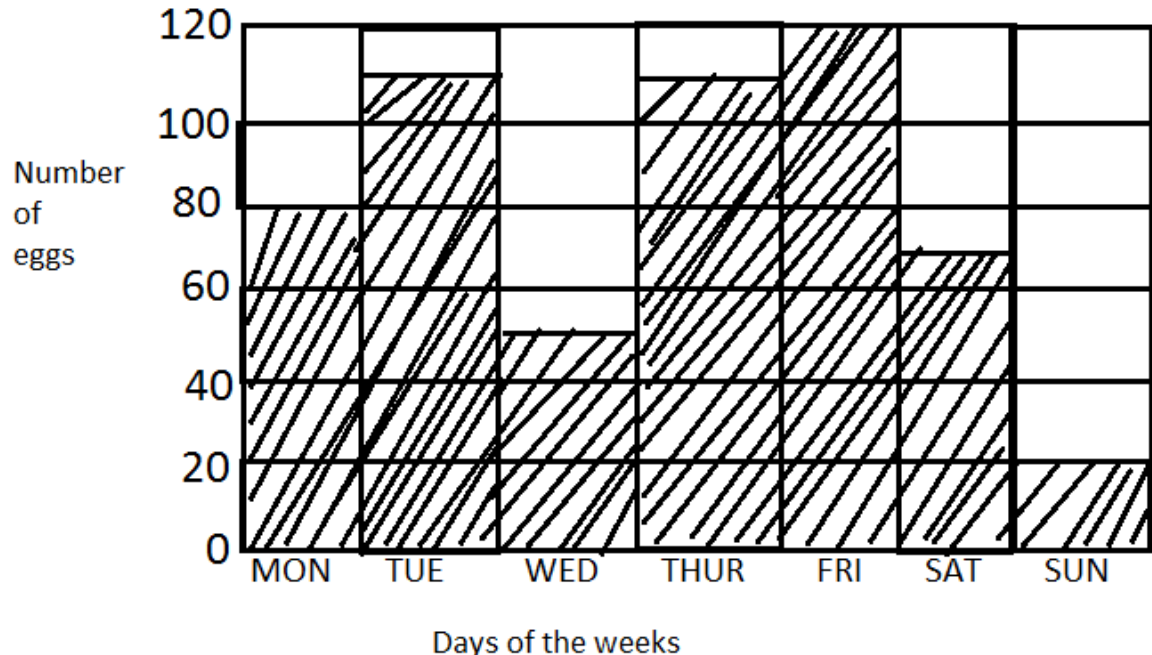
| 21. | <p>Study the venn diagram below and answer the questions that follow.</p>  | a) | Find ($A \cap B$) | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|--|------------|------------------------|-------|----------|------------|--------|-------|---|-----------|---------|-------------|------|-----------|--------|-------------|----------|----------|-----------|------|---------|----------|-----------|-------|----------|-----------|------------|--------------|--|--|--|
| | | b) | What is $n(A - B)$? | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| c) | List down the members of set B only. | d) | Find $(A \cap B)'$. | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22. | <p>Mr. Kanakulya went to the bank and filled in the form below. Complete it.</p> <table border="1" data-bbox="263 808 1349 1115"> <thead> <tr> <th>ITEMS</th><th>QUANTITY</th><th>UNIT PRICE</th><th>Amount</th></tr> </thead> <tbody> <tr> <td>Sugar</td><td>3</td><td>Sh. _____</td><td>Sh.9900</td></tr> <tr> <td>Maize flour</td><td>4 kg</td><td>Sh. _____</td><td>10,400</td></tr> <tr> <td>Cooking oil</td><td>2 litres</td><td>Sh. 3000</td><td>Sh. _____</td></tr> <tr> <td>Meat</td><td>_____kg</td><td>Sh. 6000</td><td>Sh. 9,000</td></tr> <tr> <td>Books</td><td>12 books</td><td>Sh. _____</td><td>Sh. 48,000</td></tr> <tr> <td colspan="3">TOTAL AMOUNT</td><td></td></tr> </tbody> </table> | | | ITEMS | QUANTITY | UNIT PRICE | Amount | Sugar | 3 | Sh. _____ | Sh.9900 | Maize flour | 4 kg | Sh. _____ | 10,400 | Cooking oil | 2 litres | Sh. 3000 | Sh. _____ | Meat | _____kg | Sh. 6000 | Sh. 9,000 | Books | 12 books | Sh. _____ | Sh. 48,000 | TOTAL AMOUNT | | | |
| ITEMS | QUANTITY | UNIT PRICE | Amount | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sugar | 3 | Sh. _____ | Sh.9900 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Maize flour | 4 kg | Sh. _____ | 10,400 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cooking oil | 2 litres | Sh. 3000 | Sh. _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Meat | _____kg | Sh. 6000 | Sh. 9,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Books | 12 books | Sh. _____ | Sh. 48,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL AMOUNT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23. | <p>Add the value of 5 and the value of 8 in the number 38457.</p> | b) | Expand 6×10^3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | |
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| 24. a) | Round off 3674 to the nearest hundreds. | b) | Find the next number in the sequence. 12, 15, 18, 21, ____ |
| c) | What is the greatest common factor (GCF) of 12 and 18? | | |
| 25. a) | Express 0.2 as a common fraction in its simplest form. | b) | Add: $3.46 + 15.2$ |
| c) | Arrange $\frac{1}{6}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$ in ascending order | d) | Write $\frac{1}{4}$ as a decimal fraction. |
| 26. | Show the lines of folding symmetry. | | |
| a) |  | b) |  |

| | | | |
|-----|---|-----------|--|
| b) | Draw these shapes | | |
| | Triangle | trapezium | Cuboid |
| 27. | There are 190 pupils in a class. $\frac{3}{5}$ of them are boys and the rest are girls. | | |
| a) | Find the fraction of girls. | b) | How many boys are in the class? |
| c) | How many boys are in the class than girls? | d) | Find the probability that a girl is picked at random to collect the books. |
| 28. | Find the size of the unknown angles below in degrees. | | |
| a) |  | b) | Find the supplement of 35° |
| c) | Draw a line segment of length 10cm. | | |

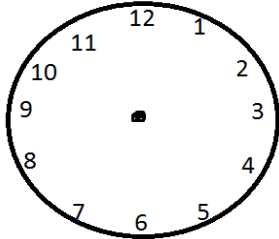
| 29. | The table below shows points scored by different houses in Summit Primary School. <table><tr><th>HOUSE</th><th>POINTS</th></tr><tr><td>Kob</td><td>20</td></tr><tr><td>Rhino</td><td>50</td></tr><tr><td>Zebra</td><td>80</td></tr><tr><td>Lion</td><td>40</td></tr><tr><td>Leopard</td><td>10</td></tr><tr><td>Crane</td><td>40</td></tr><tr><td>Tiger</td><td>40</td></tr></table> | HOUSE | POINTS | Kob | 20 | Rhino | 50 | Zebra | 80 | Lion | 40 | Leopard | 10 | Crane | 40 | Tiger | 40 | a) | What is the range of the points? |
|---------|---|-------|---|-----|----|-------|----|-------|----|------|----|---------|----|-------|----|-------|----|----|----------------------------------|
| | | HOUSE | POINTS | | | | | | | | | | | | | | | | |
| Kob | 20 | | | | | | | | | | | | | | | | | | |
| Rhino | 50 | | | | | | | | | | | | | | | | | | |
| Zebra | 80 | | | | | | | | | | | | | | | | | | |
| Lion | 40 | | | | | | | | | | | | | | | | | | |
| Leopard | 10 | | | | | | | | | | | | | | | | | | |
| Crane | 40 | | | | | | | | | | | | | | | | | | |
| Tiger | 40 | | | | | | | | | | | | | | | | | | |
| | | b) | Calculate the modal score. | | | | | | | | | | | | | | | | |
| c) | Calculate the median score. | d) | Workout the mean score. | | | | | | | | | | | | | | | | |
| 30. | Study the figure below and answer the questions that follow.  | a) | How many lines of folding symmetry has the above figure? | | | | | | | | | | | | | | | | |
| | | b) | Find the area of the above figure. | | | | | | | | | | | | | | | | |
| | | c) | If an insect moved around that figure twice , what distance will it cove? | | | | | | | | | | | | | | | | |

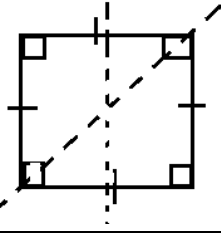
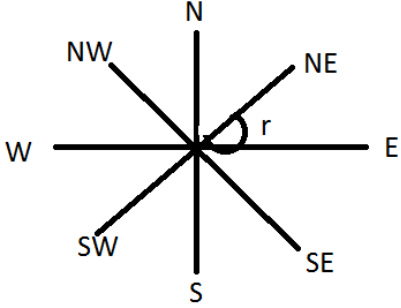
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| 31. | <p>The figure below is a cuboid, use it to answer the questions that follow.</p>  | a) | <p>The above figure has:</p> <p>_____ vertices</p> <p>_____ edges</p> <p>_____ faces</p> |
| b) | <p>Calculate the area of the shaded part.</p> | c) | <p>Calculate the volume of the cuboid above</p> |

| 32. | <p>The graph below shows the number of eggs collected by Peter from his poultry farm in a week</p>  <table><tr><th>Days of the weeks</th><th>Number of eggs</th></tr><tr><td>MON</td><td>80</td></tr><tr><td>TUE</td><td>110</td></tr><tr><td>WED</td><td>50</td></tr><tr><td>THUR</td><td>110</td></tr><tr><td>FRI</td><td>120</td></tr><tr><td>SAT</td><td>70</td></tr><tr><td>SUN</td><td>20</td></tr></table> | Days of the weeks | Number of eggs | MON | 80 | TUE | 110 | WED | 50 | THUR | 110 | FRI | 120 | SAT | 70 | SUN | 20 |
|-------------------|--|-------------------|----------------|-----|----|-----|-----|-----|----|------|-----|-----|-----|-----|----|-----|----|
| Days of the weeks | Number of eggs | | | | | | | | | | | | | | | | |
| MON | 80 | | | | | | | | | | | | | | | | |
| TUE | 110 | | | | | | | | | | | | | | | | |
| WED | 50 | | | | | | | | | | | | | | | | |
| THUR | 110 | | | | | | | | | | | | | | | | |
| FRI | 120 | | | | | | | | | | | | | | | | |
| SAT | 70 | | | | | | | | | | | | | | | | |
| SUN | 20 | | | | | | | | | | | | | | | | |
| a) | <p>On which days was the collection of eggs the same</p> | | | | | | | | | | | | | | | | |
| b) | <p>How many more eggs were collected Wednesday than Sunday?</p> | | | | | | | | | | | | | | | | |

| | |
|----|---|
| c) | How many eggs were collected from Monday to Friday? |
|----|---|

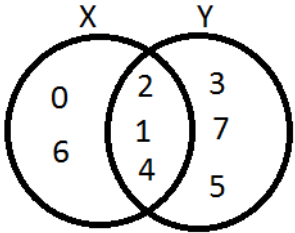

TEST 27

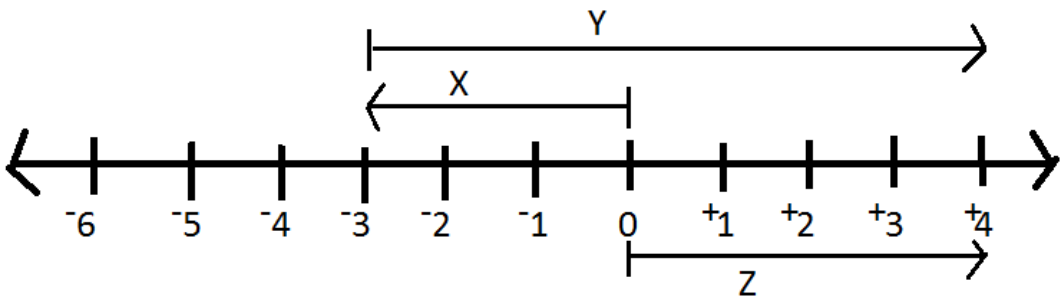
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|----|---|-----|--|
| 1. | Workout: 3×4 | 2. | Set $K = \{4, 5, 6, 7\}$. How many members are in set K? |
| 3. | Find the value of 9 in 491. | 4. | Find the next number in the sequence: 1, 3, 5, 7, 9, _____ |
| 5. | Workout: $\frac{2}{3} + \frac{3}{4}$ | 6. | Show a half past 2 o'clock  |
| 7. | Moshi bought a school bag for sh. 4,000. He sold it and made a profit of sh. 700. What was his selling price? | 8. | Collect the like terms. $2y + 3y + y$ |
| 9. | Represent -4 on the number line. | 10. | Ssemuleme collected 18 oranges. Draw tallies to represent the oranges. |

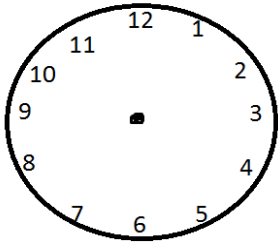
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|-----|--|-----|---|
| 11. | Below is a square, add the missing lines of folding symmetry.  | 12. | The mass of a brick is 9kg. express the mass to grams. |
| 13. | On Sarah's farm, there are 19 sheep, 13 goats and 26 cows. How many animals are on the farm altogether? | 14. | Convert $\frac{2}{10}$ to a decimal fraction. |
| 15. | Workout: $4 + (2 \times 3)$ | 16. | Below are counting numbers: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 Circle the prime numbers. |
| 17. | A science lesson started at 8.50am and ended at 9.50am. How long was the lesson? | 18. | Mukosa travelled at a speed of 60km/hr in 3 hours. Calculate the distance he covered. |
| 19. | Draw a line segment of length 5cm. | 20. | How many degrees are represented by letter r?  |

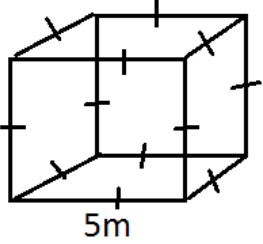
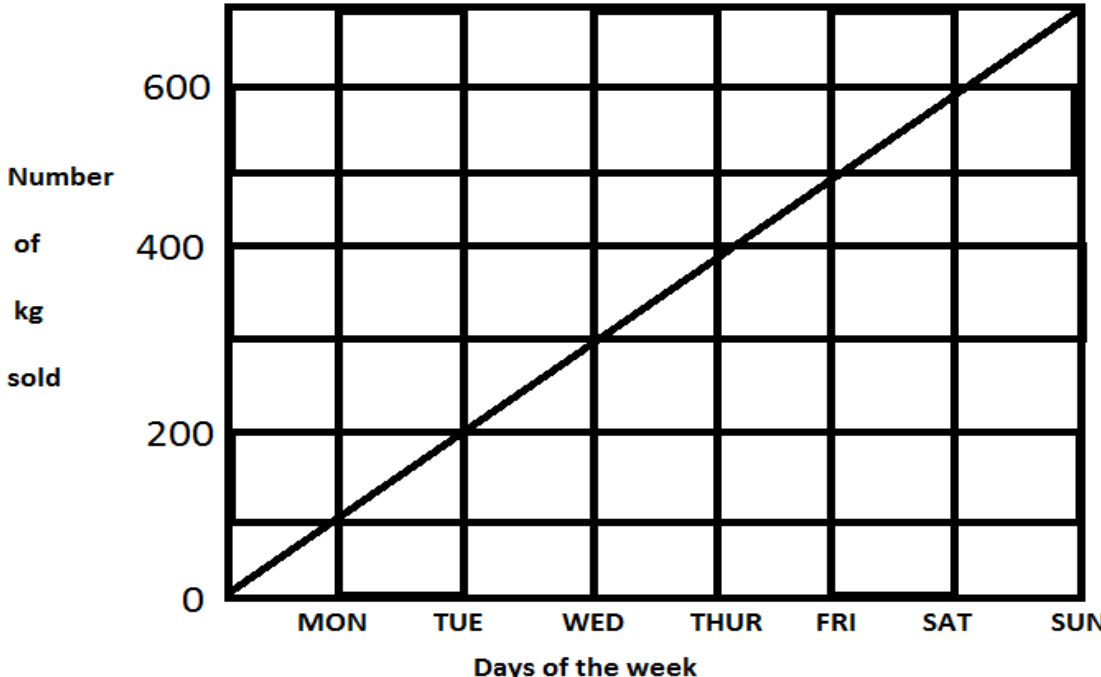
SECTION B

| | | | |
|-----|---|----|--------------------------|
| 21. | Rande went to the market with a note having banana plantations and bought the following items. <ul style="list-style-type: none"> ➤ 3 apples for sh. 800 each. ➤ 4 oranges for sh. 500 each orange. ➤ A heap of ten mangoes for sh. 2000 | | |
| a) | How much did he spend altogether? | | |
| b) | Find his change. | | |
| 22. | Write 2041 in words. | b) | Expand 2041 using values |
| c) | Show 2041 on the abacus. | | |

| | | | |
|-----|---|----|---|
| 23. | <p>Study the venn diagram below and answer the questions that follow.</p>  | a) | What is $n(X \cup Y)$? |
| b) | List the members of set X. | c) | Find $X \cap Y$. |
| 24. | <p>Shade $\frac{2}{3}$.</p>  | b) | Simplify: $\frac{3}{7} + \frac{4}{7}$ |
| c) | Jane had a loaf of bread. She ate $\frac{5}{8}$ of it in the morning. What fraction of the bread remained? | d) | Write $3\frac{1}{4}$ in words. |
| 25. | What is the LCM 6 and 12? | b) | Find the sum of the first five odd numbers. |
| c) | Find the GCF of 6 and 9. | | |

| | | | |
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| d) | Reduce $\frac{16}{24}$ to its simplest form. | | |
| 26. | During a Sunday show at MM pub, 456 children, 238 men and 197 women attended. | | |
| a) | How many adults attended the show? | b) | How many more children than men attended the show? |
| c) | If each child paid 1000/=, how much did the children pay altogether? | | |
| 27. | <p>Use the number line below and answer the questions.</p>  | | |
| a) | Name the integers: Y: Z: X: | b) | Write the mathematical statement shown on the number line. |
| c) | Without using a numberline, workout: $+3 - 7$ | | |

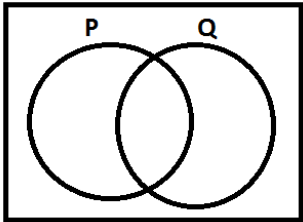
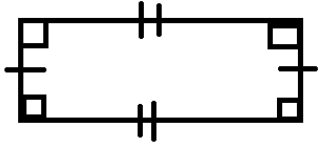
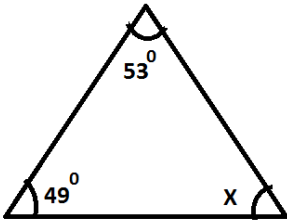
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| 28. | Using a ruler, a pencil and a pair of compasses only, construct an equilateral triangle of sides 4.5cm. | b) | Calculate its perimeter. |
| 29. | Simplify: $y + 2y + y$ | b) | Solve: $X + 4 = 9$ |
| b) | I think of a number, subtract 6 from it, the result is 4. What is the number? | b) | The perimeter of a square is 12m. Find its sides. |
| 30. | How many minutes are in $4\frac{3}{4}$ hours? | b) | Show a quarter to 8 0'clock.  |

| c) | Add: weeks days 4 3 + 5 4 _____ | d) | Change 3 years and 6 months to months. | | | | | | | | | | | | | | | | |
|------------------|---|----|---|------------------|-------------------|-----|---|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|
| 31. | Below is a solid figure, use it to answer the questions that follow.  | a) | Name the above figure. | | | | | | | | | | | | | | | | |
| | | b) | The figure has: _____vertices _____ edges _____faces | | | | | | | | | | | | | | | | |
| c) | Calculate its volume. | b) | Find the capacity of the above figure. | | | | | | | | | | | | | | | | |
| 32. | The graph below shows the number of kg of beans sold in a week.  <table><thead><tr><th>Days of the week</th><th>Number of kg sold</th></tr></thead><tbody><tr><td>MON</td><td>0</td></tr><tr><td>TUE</td><td>100</td></tr><tr><td>WED</td><td>200</td></tr><tr><td>THUR</td><td>300</td></tr><tr><td>FRI</td><td>400</td></tr><tr><td>SAT</td><td>500</td></tr><tr><td>SUN</td><td>600</td></tr></tbody></table> | | | Days of the week | Number of kg sold | MON | 0 | TUE | 100 | WED | 200 | THUR | 300 | FRI | 400 | SAT | 500 | SUN | 600 |
| Days of the week | Number of kg sold | | | | | | | | | | | | | | | | | | |
| MON | 0 | | | | | | | | | | | | | | | | | | |
| TUE | 100 | | | | | | | | | | | | | | | | | | |
| WED | 200 | | | | | | | | | | | | | | | | | | |
| THUR | 300 | | | | | | | | | | | | | | | | | | |
| FRI | 400 | | | | | | | | | | | | | | | | | | |
| SAT | 500 | | | | | | | | | | | | | | | | | | |
| SUN | 600 | | | | | | | | | | | | | | | | | | |

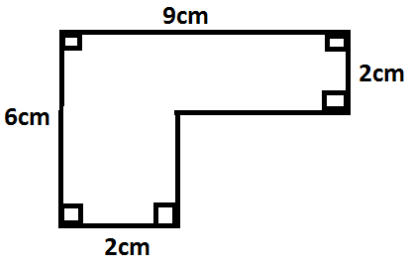
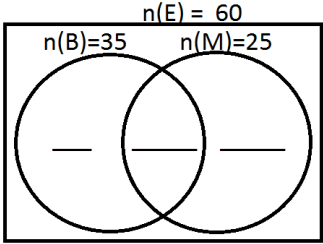
| | | | |
|----|--------------------------------|----|--|
| a) | Write kg in full. | b) | How many kg of bans were sold on Tuesday? |
| c) | When was 6000kg of beans sold? | d) | How many kg of beans were sold on Monday and Wednesday altogether? |

TEST 28

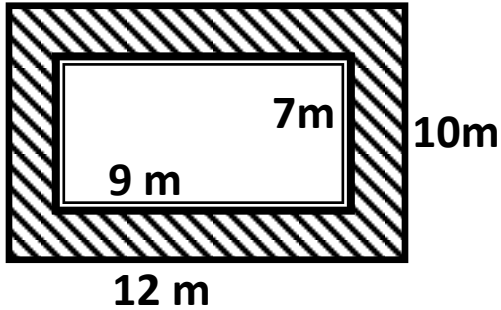
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|----|------------------------|----|---|
| 1. | Multiply: 2×5 | 2. | Express LIV in Hindu Arabic numerals. |
| 3. | Simplify: $2y + 3y$ | 4. | 3 rulers cost sh. 1,800. Find the cost of 5 similar rulers. |
| 5. | Workout: $-5 + 2$ | 6. | Draw an angle of 135° in the space below. |

| | | | |
|-----|---|-----|---|
| 7. | Shade the region $(P \cup Q)'$ in venn diaaram below  | 8. | Express 54000g into kilogrammes. |
| 9. | How many lines of folding symmetry has the given figure?  | 10. | What is the value of 9 in 2659? |
| 11. | Find the median of the following numbers: 13, 11, 12, 11, 14, 17, 10. | 12. | Solve for X: $X + 5 = 9$. |
| 13. | Write one thousand forty nine in figures. | 14. | Find the square root of $1\frac{7}{9}$. |
| 15. | Workout the radius of a circle if its diameter is 28dm. | 16. | Give the solution set for $y < 7$ if y are all positive integers. |
| 17. | Calculate angle X in degrees.  | 18. | Workout: $1\frac{2}{3} - \frac{1}{4}$ |

| | | | |
|-----------|---|-----|---|
| 19. | If set $X = \{1, 2, 3, 4, 5\}$ and set $Y = \{2, 5, 7, 9, 11\}$. Find $n(X \cup Y)$ | 20. | Draw an abacus and show 403 on the abacus |
| SECTION B | | | |
| 21. | Find the sum of the first four odd numbers. | b) | List down all the prime numbers less than 20. |
| c) | A basket contains 6 apples and 8 oranges. Find the probability of picking an apple at random. | | |
| 22. | Workout: $3 + 4 = \underline{\hspace{1cm}} \pmod{5}$ | b) | Add: $204_{\text{five}} + 44_{\text{five}}$ |
| c) | Convert 132_{five} to a decimal base. | | |

| | | | |
|-----|--|----|---|
| 23. | <p>Calculate the perimeter of the figure.</p>  | b) | <p>The area of a rectangle is 36m^2. If the length is 9m, find its width.</p> |
| 24. | <p>Digit 2,9,and 1 are used to form three digit numbers. Complete the missing numbers. 129, _____, 912, _____, 291, _____</p> | b) | <p>Find the next number in the sequence: 2, 3, 5, 7, _____</p> |
| c) | <p>Use either $<$, $>$ or $=$ to complete the following. $40 \div 8$ _____ 2×3</p> | | |
| 25. | <p>In a group of 60 people, 35 eat Beans (B), 25 eat Meat (M) and 10 eat both.</p> | | |
| a) | <p>Represent the above information on the venn diagram below.</p>  | b) | <p>How many people eat only one type of food?</p> |

26. Find the area of the shaded part.



27. Bus park, Railway and Airport station Agents make time tables using a 24 hour clock. Below is a timetable for a train.

| Distance in km from A | Station | Arrival time | Departure time |
|-----------------------|---------|--------------|----------------|
| 0 | A | | 0600 hours |
| 60 | B | 0730 hours | 0740 hours |
| 140 | C | 1010 hours | 1020 hours |
| 230 | D | 1150 hours | 1215 hours |
| 360 | E | 1500 hours | |

- a) Change the time at station D to 12 hour clock.
- b) How long does the train take from station B to D.
- c) Find the actual time when the train is from B to D without stopping.
- d) How long does the train stop at station C?

| | | | |
|-----|---|-----|--|
| e) | Calculate the average speed of the train from station A to E. | | |
| 28. | | 29. | |
| 30. | | 31. | |
| 32. | | 33. | |
| 34. | | 35. | |
| 36. | | 37. | |
| 38. | | 39. | |
| 40. | | 41. | |
| 42. | | 43. | |
| 44. | | 45. | |
| 46. | | 47. | |
| 48. | | 49. | |
| 50. | | 51. | |
| 52. | | 53. | |
| 54. | | 55. | |
| 56. | | 57. | |
| 58. | | 59. | |
| 60. | | 61. | |