# DREAM AFRICA SCHOOL-SEETA

**MID TERM I EXAMS 2020**

**P.6 MATHEMATICS:**

**Time allowed: 2 hours 30 minutes:**

**Name:** _____

## Section A (40 Marks)

1. Subtract: 22 from 188

2. Write 96 in Roman numerals.

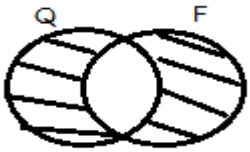
3. Simplify: $\frac{24}{28}$

4. What is the value of 3 in 360.42?

5. Work out: $\frac{2}{3} + \frac{1}{2}$

6. Find the median of the number 8, 2, 3, 10, 9, 4 and 2.

7. Describe the shaded part in the diagram below.




8. Simplify: $^{-}8 - {}^{+}6$

9. Write 234,768 in words.

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10. Three shirts cost shs. 2400, find the cost of 5 similar shirts.

11. If today is Thursday, what day of the week will be 47 after days?

12. Write the next number in the sequence below:
    2, 3, 5, 7, ___

13. James covered 252km in $3\frac{1}{2}$ hrs. At what speed was he travelling?

14. Find the LCM of 18 and 9.

15. Set M has 31 proper subsets, how many elements has set M?

16. Round off 79836 to the nearest thousands.

17. Using a ruler and a pair of compasses only, construct an angle of $60^0$.

18. Find the expanded number below:
    $(7 \times 10^3) + (6 \times 10^2) + (3 \times 10^1)$

19. A football match ended at 4:30p.m. If it took $1\frac{1}{2}$ hours, at what time did it start?

20. Work out: $342_{\text{five}} + 44_{\text{five}}$.

## SECTION B (60 MARKS)

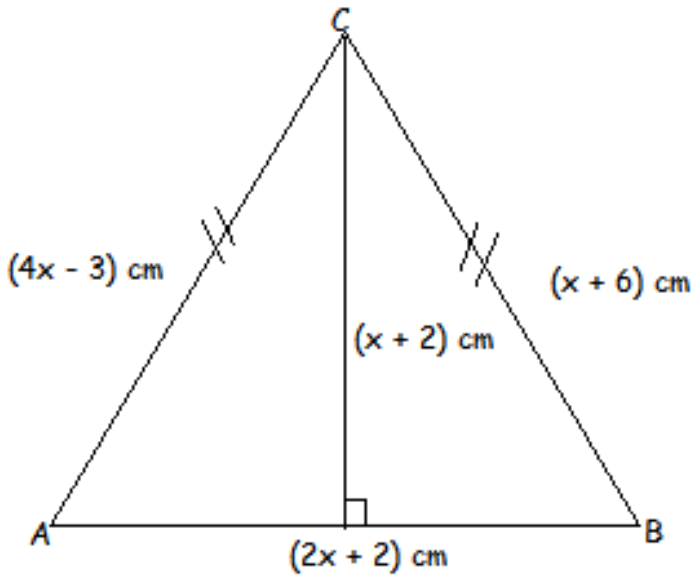
21. (a) The LCM of two numbers is 72. Their GCF is 12, if one of the numbers is 36. Find the second number. **(02 Marks)**

(b) The sum of three consecutive even numbers is 66.

(i) Find the numbers. **(02 Marks)**

(ii) Work out their range. **(01 Marks)**

22. Study the figure below and use it to answer questions that follow.




**(a)** Find the value of x. **(02 marks)**

**(b)** Calculate the area of the above figure. **(02 marks)**

**(c)** Calculate the perimeter of the above figure. **(02 marks)**

23. Using a ruler, a pair of compasses and a pencil only, construct a triangle ABC where AB = 6cm, BC = 5cm and AC = 4 cm in the space below. **(04 Marks)**

24. When marking a test, a teacher a warded 2 marks for every correct answer and subtracted a mark for every correct answer. What is the score mark for a candidate who gives:

**(a)** 3 correct answers and 2 correct answers? **(03 Marks)**

**(b)** 5 correct answers and 3 correct answers? **(03 Marks)**

25. (a) Solve: $\frac{2x-2}{3} = \frac{x+1}{2}$ **(03 marks)**

(b) solve for p: 3(p + 1) = 0 **(02 marks)**

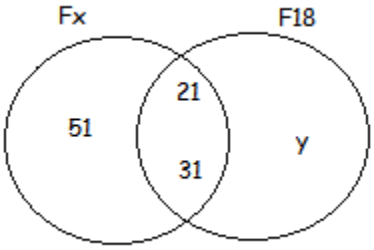
26. Professor Arikosi bought a certain number of mangoes. When he grouped them in heaps of 7, three mangoes remained, when he grouped them in heaps of 8, five mangoes remained. How many mangoes did the professor buy?
**(03 Marks)**

27. Wabwire went to Nateete market and bought the following items.
2kg of beans at sh. 2200 per kg.
Kg of sugar at sh. 2000 a kg.
5 tomatoes at sh. 500 per tomato.
500g of millet flour at sh. 1200.
(a) Calculate his expenditure. **(05 marks)**

(b) If he remained with a debt of sh. 1500, how much did he go with?

**(01 Mark)**

28. The Venn diagram below shows prime factors of $x$ and 18

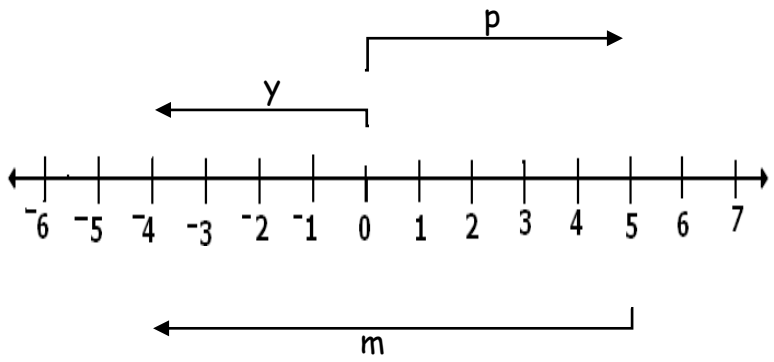



**(a)** Find the value of x. **(02 Marks)**

(b) Find the value of y. **(02 Marks)**

**(c)** Find the LCM of x and y. **(02 Marks)**

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




(a) Write the integers shown on the number line above.

(i) m = _____

(ii) p = _____

(iii) y = _____ **(03 Marks)**

**(b)** Write the mathematical statement on the number line. **(01 Mark)**

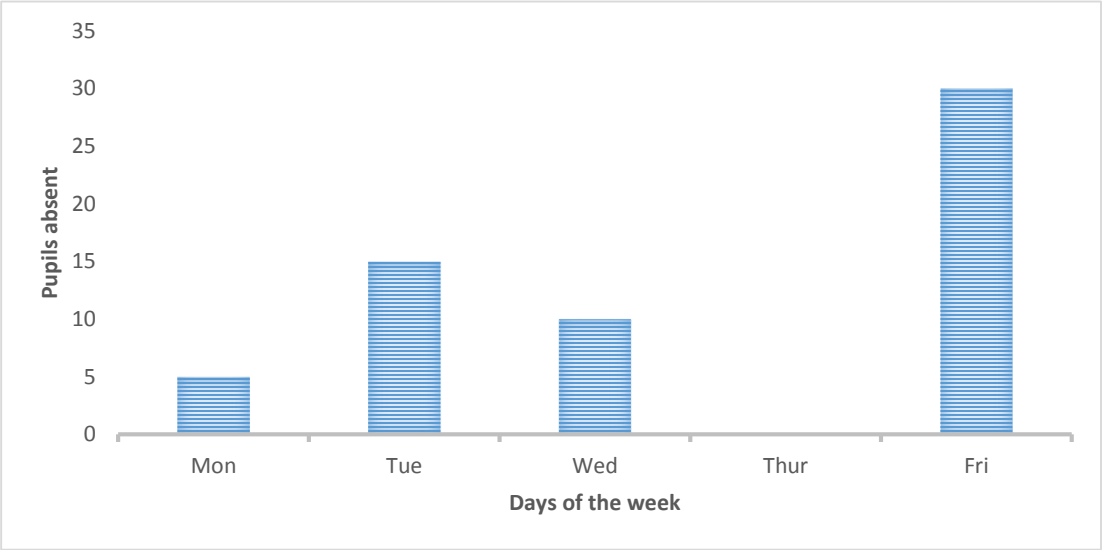
30.Complete the table below using Finite 5. **(04 marks)**

| + | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| 0 | 0 | 1 | 2 | 3 |
| 1 | 1 | 2 | 3 | __ |
| 2 | 2 | 3 | 4 | __ |
| 3 | 3 | 4 | __ | __ |

31. (a) Three marine soldiers at a target practice were firing at intervals of 5 minutes, 8 minutes and 10 minutes respectively. After how long will the marine soldiers fire together? **(03 Marks)**

(b) If the soldiers first fired together at 4:45p.m, at what will they fire together again? **(02 Marks)**

32. The graph below shows pupils who were absent in P.6 class in Namugongo Primary School during a certain week in November last year. There were 50 pupils in the class.




(a) How many pupils were present on Tuesday? **(02 Marks)**

**(b)** On which day did all the pupils attend class? **(01 Mark)**

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**(c)** Calculate the average number of the pupils who attended for the whole week. **(03 Marks)**