

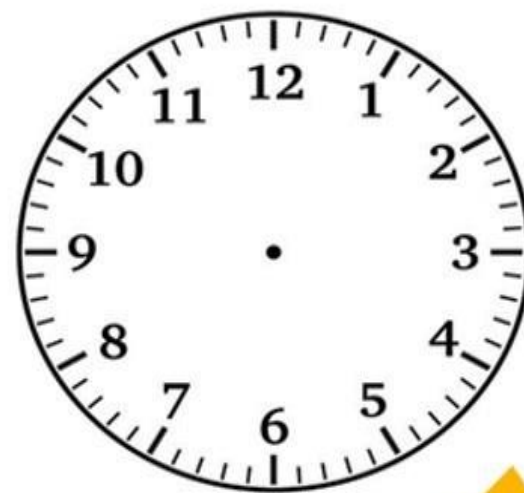
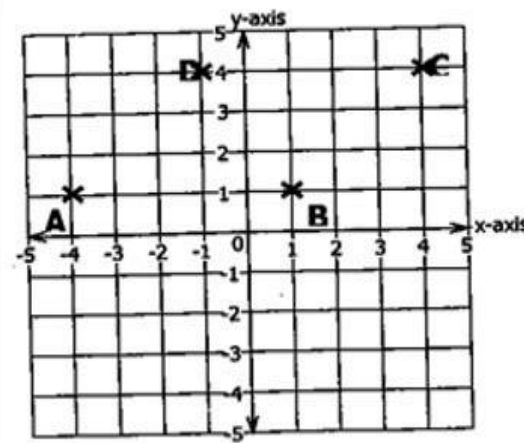
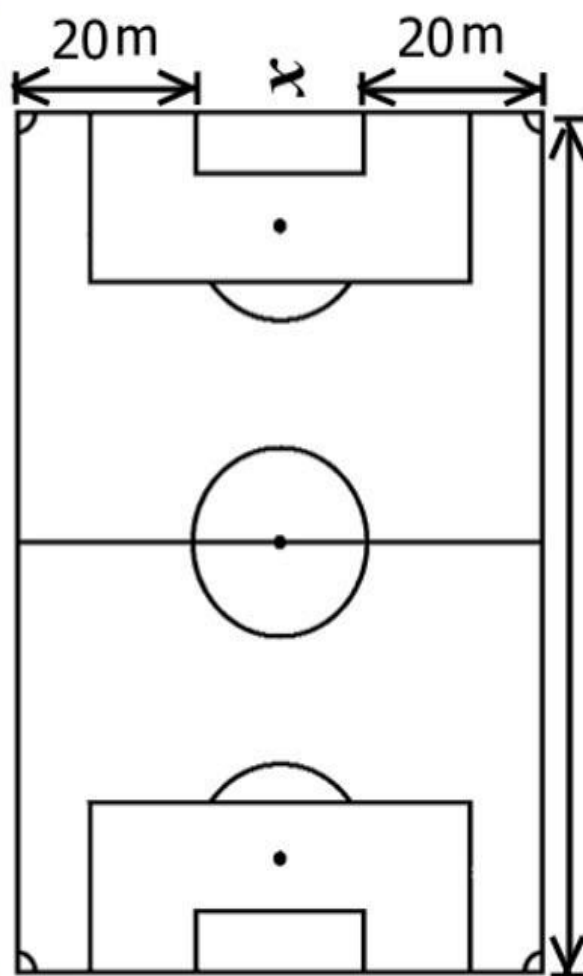
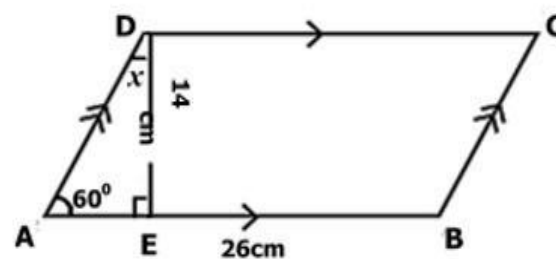
SUREKEY

PLE PREPARATION EXAMINATION

MATHEMATICS

SET

3



OFFICIAL MARKING GUIDE



Let Quality speak for itself



SECTION A: 40 MARKS

Answer **all** questions in this Section

Questions 1 to **20** carry two marks each

1. Add:

$$\begin{array}{r} 723 \\ + 264 \\ \hline 987 \end{array}$$

$$\left\| \begin{array}{l} 3 + 4 = 7 \\ 2 + 6 = 8 \\ 7 + 2 = 9 \end{array} \right.$$

Topic: Operation on Whole Numbers

Class: P.2

Level: K

2. Write in figures; Twenty seven thousand forty.

Topic: Operation on Whole Numbers

Class: P.4

Level: C

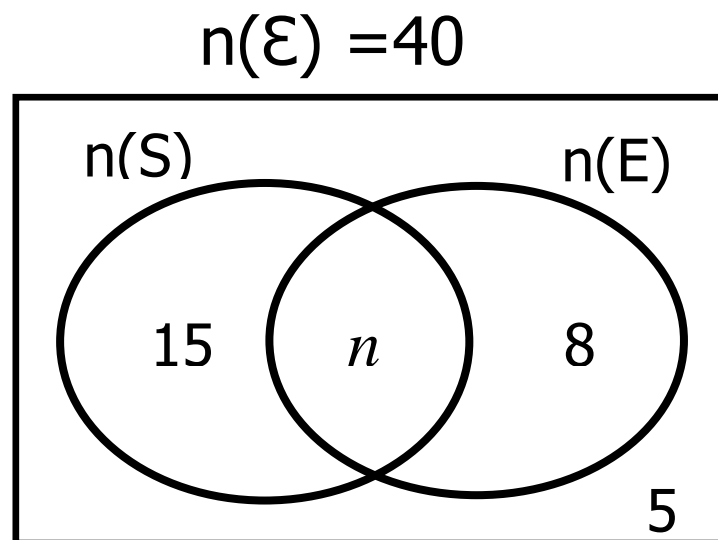
$$\begin{array}{r} \text{Twenty seven thousand} \\ \text{Forty} \\ \hline \text{Twenty seven thousand forty.} \end{array} \quad \begin{array}{r} - 27,000 \\ - + 40 \\ \hline - 27,040 \end{array}$$

OR

Thousands			Units		
H	T	O	H	T	O
0	2	7	0	4	0

= 27,040

3. Study the Venn diagram below and find the value of n .



Topic: Set Concepts

Class: P.6

Level: A

$$\begin{aligned} 15 + n + 8 + 5 &= 40 \\ (15 + 8 + 5) + n &= 40 \\ 28 + n &= 40 \\ 28 - 28 + n &= 40 - 28 \\ n &= 12 \end{aligned}$$

OR

$$\begin{aligned} n &= 40 - (15 + 8 + 5) \\ n &= 40 - 28 \\ n &= \underline{12} \end{aligned}$$

4. Write the next number in the sequence below as a Roman numeral.

$$\begin{array}{cccccc} 4, & 9, & 16, & 25, & \underline{36} \\ \swarrow & \downarrow & \swarrow & \downarrow & \swarrow \\ +5 & +7 & +9 & +11 & \\ & & & & 25 + 11 = 36 \end{array}$$

As a Roman Numeral
36 → XXVI

$$\begin{array}{cccccc} \text{OR } 4, & 9, & 16, & 25, & \underline{36} \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 2^2 & 3^2 & 4^2 & 5^2 & 6^2 \\ & & & & 6 \times 6 = 36 \end{array}$$

As a Roman Numeral
36 → XXVI

5. At what speed should Messi run around the field if he is to cover a distance of 6km in 90 minutes of playing football?

Topic: Operation on Whole Numbers

Class: P.6

Level: C



$$\begin{aligned} D &= 6\text{km} \\ T &= 90 \text{ minutes} \\ S &= ?? \end{aligned}$$

Time in hrs

$$60\text{min} = 1\text{hr}$$

$$\begin{aligned} 90\text{min} &= \frac{90}{60} \text{hr} \\ &= \frac{3}{2} \text{hr} \end{aligned}$$

$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$

$$\text{Speed} = 6\text{km} \div \frac{3}{2}\text{hr}$$

$$\text{Speed} = 6^2\text{km} \times \frac{2}{3}\text{hr}$$

$$\text{Speed} = 2\text{km} \times \frac{2}{1}\text{hr}$$

$$\text{Speed} = 4\text{km/hr}$$

$$\text{OR: Speed} = \frac{\text{Distance}}{\text{Time}}$$

$$\text{Speed} = \frac{6\text{km}}{90\text{min}}$$

$$\text{Speed} = \frac{6^2\text{km}}{90_{30}\text{min}}$$

$$\text{Speed} = \frac{2^1\text{km}}{30_{15}\text{min}}$$

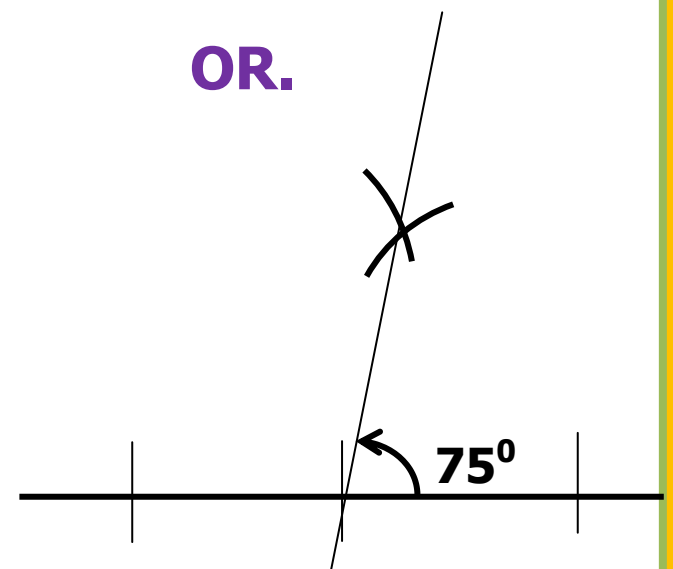
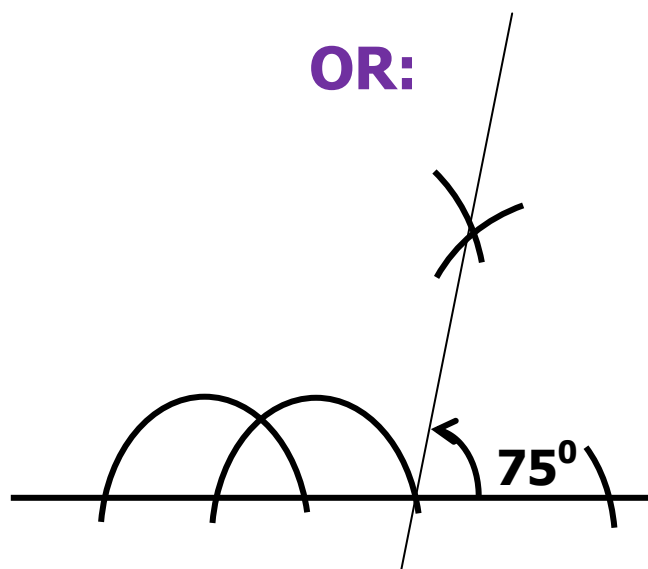
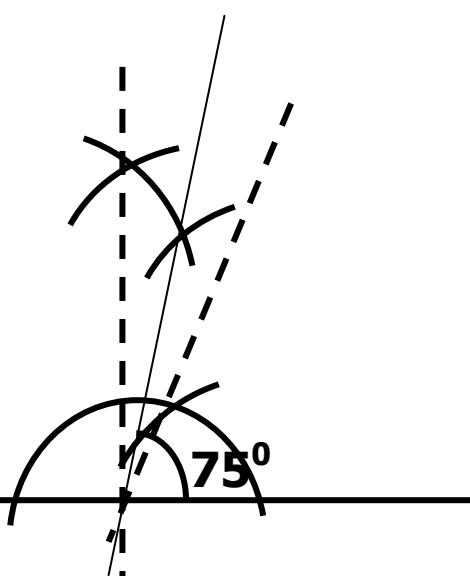
$$\text{Speed} = \frac{1}{15} \text{ km/min}$$

6. Using a ruler, a sharp pencil and a pair of compasses only, construct an angle of 75° in the space below.

Topic: Lines, Angles and Geometric figures

Class: P.6

Level: A



7. Given that $y = -4$, $p = -3$, work out the value of $3y^2 - 5py^2$

Topic: Algebra

Class: P.6

Level: C

$$3y^2 - 5py^2$$

$$3 \times y \times y - 5 \times p \times y \times y$$

$$3 \times (-4 \times -4) - 5 \times -3 \times (-4 \times -4)$$

$$3 \times +16 - 15 \times +16$$

$$+48 - 16$$

$$+48 - (-240)$$

$$+48 + 240$$

$$288$$

Remember

$$- \times + = -$$

$$+ \times - = -$$

$$+ \times + = +$$

$$- \times - = +$$

8. How many tins of 500grams would one get from a 4 kilogram tin of KIMBO?

Topic: Mass, Length and Capacity

Class: P.5 Level: C

Grams to Kilograms

$$1000g = 1 \text{ kg}$$

$$500g = \left(\frac{500}{1000} \right) \text{ kg}$$

$$= \frac{1}{2} \text{ kg}$$

Number of tins

$$4\text{kg} \div \frac{1}{2} \text{ kg}$$

$$4\text{kg} \times \frac{2}{1 \text{ kg}}$$

$$4 \times 2$$

$$= \underline{\underline{8 \text{ tins}}}$$

OR Number of tins

$$1\text{kg} = 1000g$$

$$4\text{kg} \div \left(\frac{500}{1000} \right) \text{ kg}$$

$$4\text{kg} \times \frac{2}{1 \text{ kg}}$$

$$4 \times 2$$

$$= 8 \text{ tins}$$

9. Find the probability of Sarah going to the market if she usually goes there on a day beginning with letter **T**.

Topic: Data Handling

Class: P.4 Level: C

Total chances

M (T) W (T) F S S

$$n(\text{T.C}) = 7$$

$$\text{Probability} = \frac{n(\text{P.C})}{n(\text{T.C})}$$

Possible chances

Tuesday, Thursday

$$n(\text{P.C}) = 2$$

$$\text{Probability} = \frac{2}{7}$$

10. What number is written in standard form as 1.9×10^3 ?

Topic: Number Patterns and Sequence

Class: P.5 Level: C

$$1.9 \times 10^3 = 1.9 \times 10 \times 10 \times 10$$

$$= \underline{19} \times 1000$$

$$= 19 \times 100$$

$$= 1900$$

11. Find the least number of sweets which can be shared by 12 boys or 15 boys leaving a remainder of 4.

Topic: Number Patterns and Sequence

Class: P.6 Level: C

2	12	15
2	6	15
3	3	15
5	1	5
	1	1

LCM + Remainder

$$(2 \times 2 \times 3 \times 5) + 4$$

$$60 + 4$$

$$= \underline{\underline{64 \text{ sweets}}}$$

OR: Using Finite

$$4(\text{finite } 12) = 16, 28, 40, 52, \underline{64}, 76$$

$$4(\text{finite } 15) = 19, 34, 49, \underline{64}, 79, 94$$

$$= \underline{\underline{64 \text{ sweets}}}$$

12. How much simple interest on Sh.240,000 at a rate of $4\frac{1}{2}\%$ per month would Sam pay to a Micro finance bank after 3 months?

Topic: Fractions (Money)

Class: P.6

Level: C

Principal = Sh240,000

Rate = $4\frac{1}{2}\%$ / $\frac{9}{2}\%$

Time = 3 months

Interest = ??

$$S.I = P \times \frac{R}{100} \times \frac{T}{12}$$

$$S.I = \text{Sh}240,000 \times \frac{9}{2} \div \frac{100}{1} \times 3$$

$$S.I = \text{Sh}240,000 \times \frac{1200}{21} \times \frac{3}{100}$$

$$S.I = \text{Sh}(1,200 \times 9 \times 1) \times 3$$

$$S.I = \text{Sh}10,800 \times 3$$

$$S.I = \text{Sh}32,400$$

13. Workout the sum of 7.5 and 5.

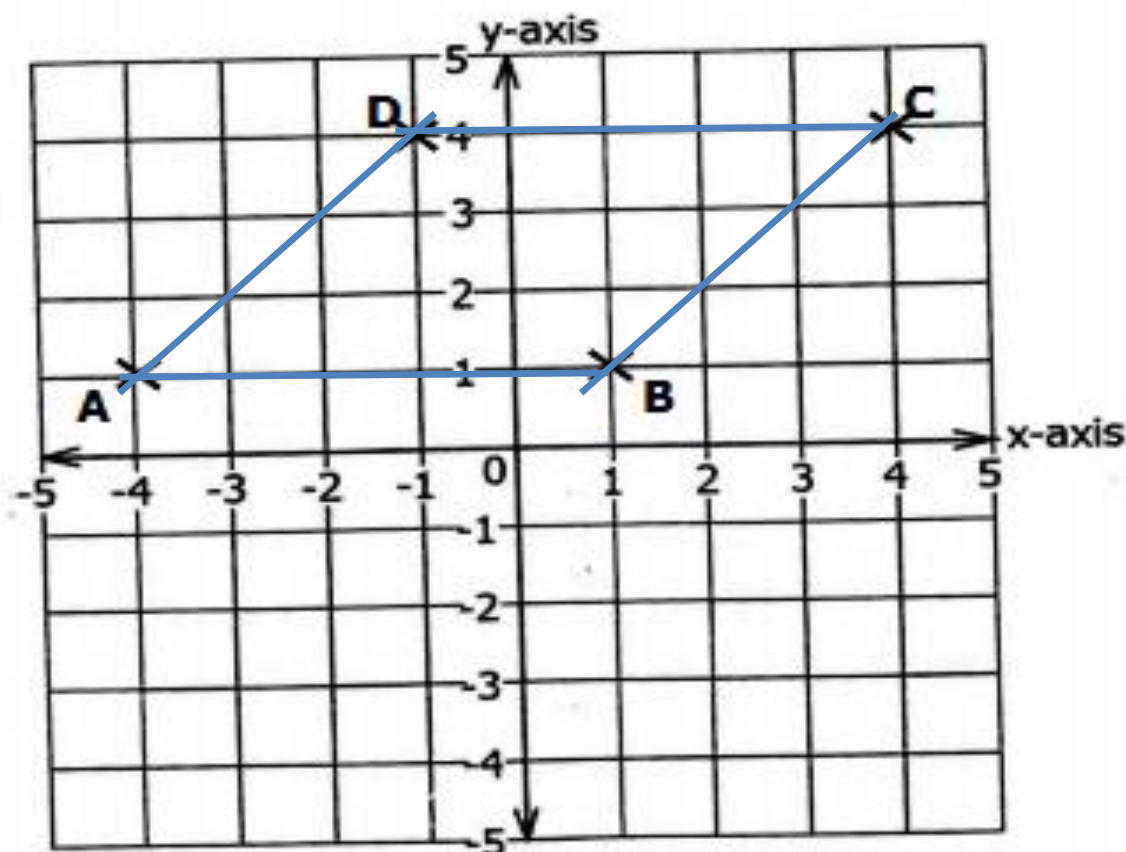
Topic: Fractions

Class: P.5

Level: C

$$\begin{array}{r} \text{Sum} \\ 7.5 \\ +5.0 \\ \hline 12.5 \end{array}$$

14. In the graph below, join point **A** to **B**, **B** to **C**, **C** to **D** and **D** to **A**.



Topic: Data Handling

Class: P.7

Level: C

Name the polygon **ABCD** formed.

Parallelogram. **OR** Quadrilateral

15. Workout the difference of the 6th and 4th triangular numbers.

Topic: Number Patterns and Sequence

Class: P.5

Level: C

Triangular Numbers

$$\begin{aligned}
 1 &= 1 \\
 1+2 &= 3 \\
 1+2+3 &= 6 \\
 1+2+3+4 &= \textcircled{10} \\
 1+2+3+4+5 &= 15 \\
 1+2+3+4+5+6 &= \textcircled{21}
 \end{aligned}$$

Difference

$$\begin{aligned}
 21 - 10 \\
 = \underline{\underline{11}}
 \end{aligned}$$

OR: Using the formula $n(n+1)$

$$\frac{6^{\text{th}}}{n(n+1)}$$

$$\frac{6(6+1)}{2}$$

$$\frac{6(7)}{2} = \frac{42}{2}$$

$$= 21$$

$$\frac{4^{\text{th}}}{n(n+1)}$$

$$\frac{4(4+1)}{2}$$

$$\frac{4(5)}{2} = \frac{20}{2}$$

$$= 10$$

Difference

$$\begin{aligned}
 21 - 10 \\
 = 11
 \end{aligned}$$

16. In a school of 540 pupils, 20% of them are boys and the rest are girls. Find the number of girls in the school.

Topic: Fractions (Percentages)

Class: P.6

Level: C

Boys	Girls	Tot
20%	(100% - 20%) = 80%	100% 540

Number of girls

$$\frac{80}{100} \times 540$$

$$\begin{aligned}
 8 \times 54 \\
 = 432 \text{ girls}
 \end{aligned}$$

OR: Number of boys

$$\frac{20}{100} \times 540$$

$$\begin{aligned}
 2 \times 54 \\
 = 108 \text{ boys}
 \end{aligned}$$

Number of girls

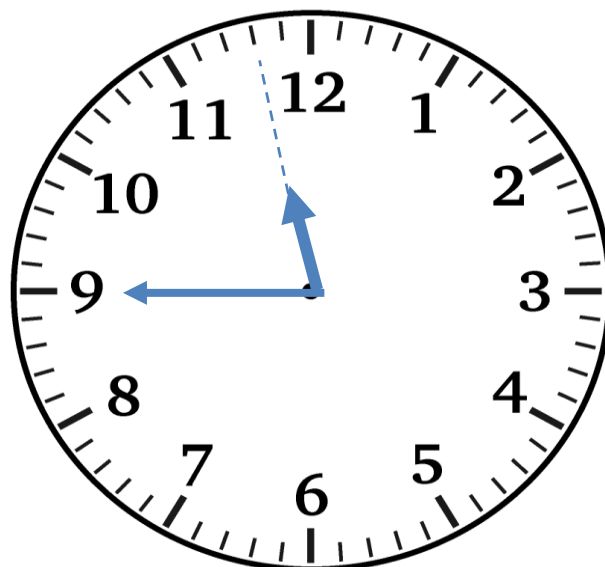
$$\begin{aligned}
 540 \\
 - 108 \\
 \hline
 432 \text{ girls}
 \end{aligned}$$

17. Show fifteen minutes before midnight on the clock face below.

Topic: Time

Class: P.6

Level: C



Hrs.	Mins
12	00
-0	15
<u>11</u>	<u>45</u>

11:45pm

18. Solve the inequality: $2x - 9 > 3 - x$.

Topic: Algebra (Inequalities)

Class: P.7

Level: C

$$2x - 9 > 3 - x$$

$$2x - 9 + 9 > 3 - x + 9$$

$$2x > 3 + 9 - x$$

$$2x + x > 12 - x + x$$

$$3x > 12$$

$$\frac{3^1 x}{3_1} > \frac{12^4}{3_1}$$

$$x > 4$$

19. The average weight of four boys is 56kg, when two teachers join them, their average weight becomes 52kg. Find the weight of the two teachers.

Topic: Data Handling

Class: P.6

Level: C

Total weight of four boys

$$4 \times 56\text{kg}$$

$$= 224\text{kg}$$

When teachers join

4 boys + 2 teachers

= 6 people

Total weight when teachers join

$$6 \times 52\text{kg}$$

$$= 312\text{kg}$$

Weight of the two teachers

$$312\text{kg} - 224\text{kg}$$

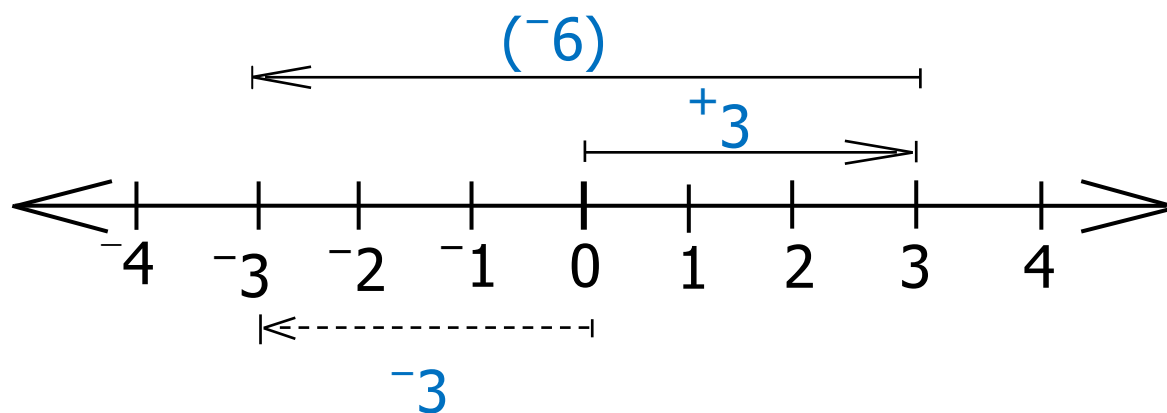
$$= 88\text{kg}$$

20. Workout: $+3 + ^{-}6$ on the number line below.

Topic: Integers

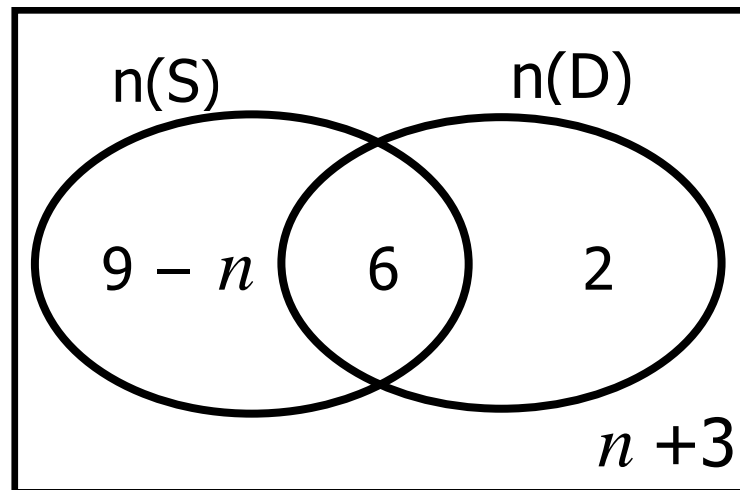
Class: P.5

Level: C



SECTION B: 60 MARKS

21. The Venn diagram below shows the number of pupils who like singing (S) and others dancing (D), the rest like neither of the two.



- (a) If 7 pupils like neither singing nor dancing, find the value of n . (02 Marks)

Topic: Set Concept

Class: P.6 **Level:** C & C

$$\begin{aligned}
 n + 3 &= 7 \\
 n + 3 - 3 &= 7 - 3 \\
 \underline{\underline{n}} &= \underline{\underline{4}}.
 \end{aligned}$$

- (b) How many pupils don't like dancing? (02 Marks)

$$\begin{aligned}
 n(D)' &= 9 - n + n + 3 \\
 &= (9 - 4) + (4 - 3) \\
 &= 5 + 1 \\
 &= 6 \text{ pupils}
 \end{aligned}$$

22. (a) Simplify: 4 boys + 3 girls - 2boys + 2 girls. (02 Marks)

Topic: Algebra

Class: P.7

Level: C & A

$$\begin{aligned}
 &4 \text{ boys} + 3 \text{ girls} - 2\text{boys} + 2 \text{ girls.} \\
 &4 \text{ boys} - 2\text{boys} + 3 \text{ girls} + 2 \text{ girls.} \\
 &\underline{\underline{2\text{boys} + 5\text{girls}}}.
 \end{aligned}$$

- (b) Kalibbala is 24 years old and his brother Kabali is 6 years old. After how many years will Kalibbala be three times as old as his brother Kabali? (04 Marks)

<u>Now</u>	<u>Number of years</u>	
Kalibbala - 24years	$24 + x$	$= 3(6 + x)$
Kabala - 6 years	$24 + x$	$= 18 + 3x$
<u>After x years</u>	$24 + x - x$	$= 18 - 18 + 3x$
Kalibbala - $24 + x$	$24 - 18$	$= 3x - x$
Kabala - $6 + x$	6	$= 2x$
		$6^3 = 2^1 x$
		$2_1 = 2_1$
		$3 = x$
		$x = 3 \text{ years}$
		<u>After 3 years</u>

23. Rose went for shopping and bought the following items

4kg of sugar at Sh.12,000.

2 litres of cooking oil at Sh.11,000.

3 bars of soap.

Topic: Money

Class: P.6

Level: C & C

(a) How much did she pay for sugar and cooking oil?

<u>Sugar</u>	<u>Total cost</u>	(02 Marks)
Sh.12,000.	Sh.12,000.	
<u>Cooking oil</u>	+ Sh.11,000.	
Sh.11,000.	<u>Sh.23,000.</u>	

(b) If Rose paid sh. 32,000 for all the items, how much did she pay for each bar of soap? (02 Marks)

<u>Cost of 3 bars</u>	<u>Cost of each bar</u>
Sh.32,000.	3 bars cost Sh.9,000.
- Sh.23,000.	1 bar will cost Sh. <u>3,000.</u>
<u>Sh. 9,000.</u>	<u>3</u> ₁

She paid Sh.3,000 for each bar of soap

24. (a) Workout: $133_{\text{five}} - 42_{\text{five}}$ (02 Marks)

Topic: Whole Numbers

Class: P.5

Level: C & C

<u>0</u> $3^5 3_{\text{five}}$	$3 - 2 = 1$
- $4 2_{\text{five}}$	$5 + 3 = 8$
<u>0 4 1</u> _{five}	$8 - 4 = 4$

(b) The table below shows addition in base two. Study it carefully and complete it correctly. (03 Marks)

+	0	1	2
0	0	1	10
1	1	10	11
2	10	11	100

$0 + 2 = 2$

$2 \div 2 = 1r 0$

$1 + 0 = 1$

$2 + 1 = 3$

$3 \div 2 = 1r 1$

25. On a day when $\frac{1}{6}$ of the pupils in the class were absent, 35 pupils were present. How many pupils were present when $\frac{1}{7}$ of the pupils in the class were absent? (05 Marks)

Topic: Fractions

Class: P.7

Level: C & C

Fractions

$$\text{Absent} - \frac{1}{6}$$

$$\text{Present} - \frac{6}{6} - \frac{1}{6} = \frac{5}{6} \text{ Equals to 35 pupils}$$

Number of pupils in the class

$$\begin{array}{r} 35 \div \underline{5} \\ \quad \underline{6} \\ 35^7 \times \underline{6} \\ \quad \underline{5}_1 \\ 7 \times 6 \\ \underline{42 \text{ pupils}} \end{array}$$

OR: 5 parts rep 35 pupils
1 part rep $\frac{35^7}{5}_1$
7 pupils
6 parts rep 7×6
= 42 pupils

OR: Let the total no. of pupils be k
 $\frac{5}{6} \times k = 35 \text{ pupils}$
 $\frac{6^1}{5_1} \times \frac{5^1}{6_1} k = 35^7 \times \frac{6}{5_1}$
k = 7×6
k = 42 pupils

$$\text{Absent} - \frac{1}{7}$$

$$\text{Present} - \frac{7}{7} - \frac{1}{7} = \frac{6}{7}$$

Number of pupils present

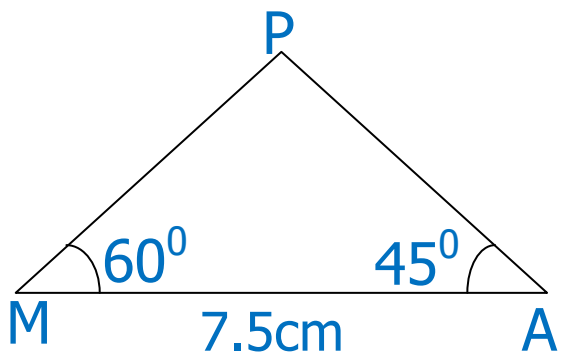
$$\begin{array}{r} \underline{6} \times 42^6 \\ \underline{7}_1 \\ 6 \times 6 \\ \underline{36 \text{ pupils}} \end{array}$$

OR: 7 parts rep 42 pupils
1 part rep $\frac{42^6}{7}_1$
= 6 pupils
6 parts rep 6×6
= 36 pupils

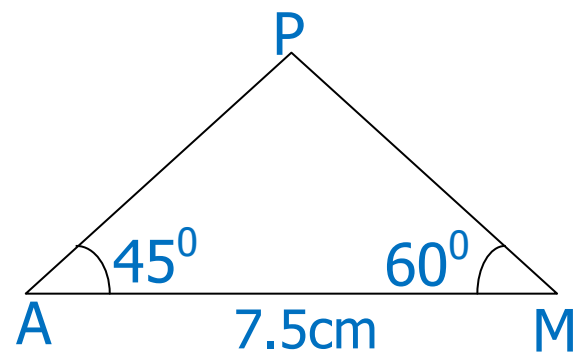
26. (a) Using a ruler, a pencil and a pair of compasses only, Construct triangle MAP where $\angle M = 60^\circ$ length MA = 7.5cm and $\angle A = 45^\circ$. (04 Marks)

Topic: Lines, Angles and Geometric figures Class: P.6 Level: A

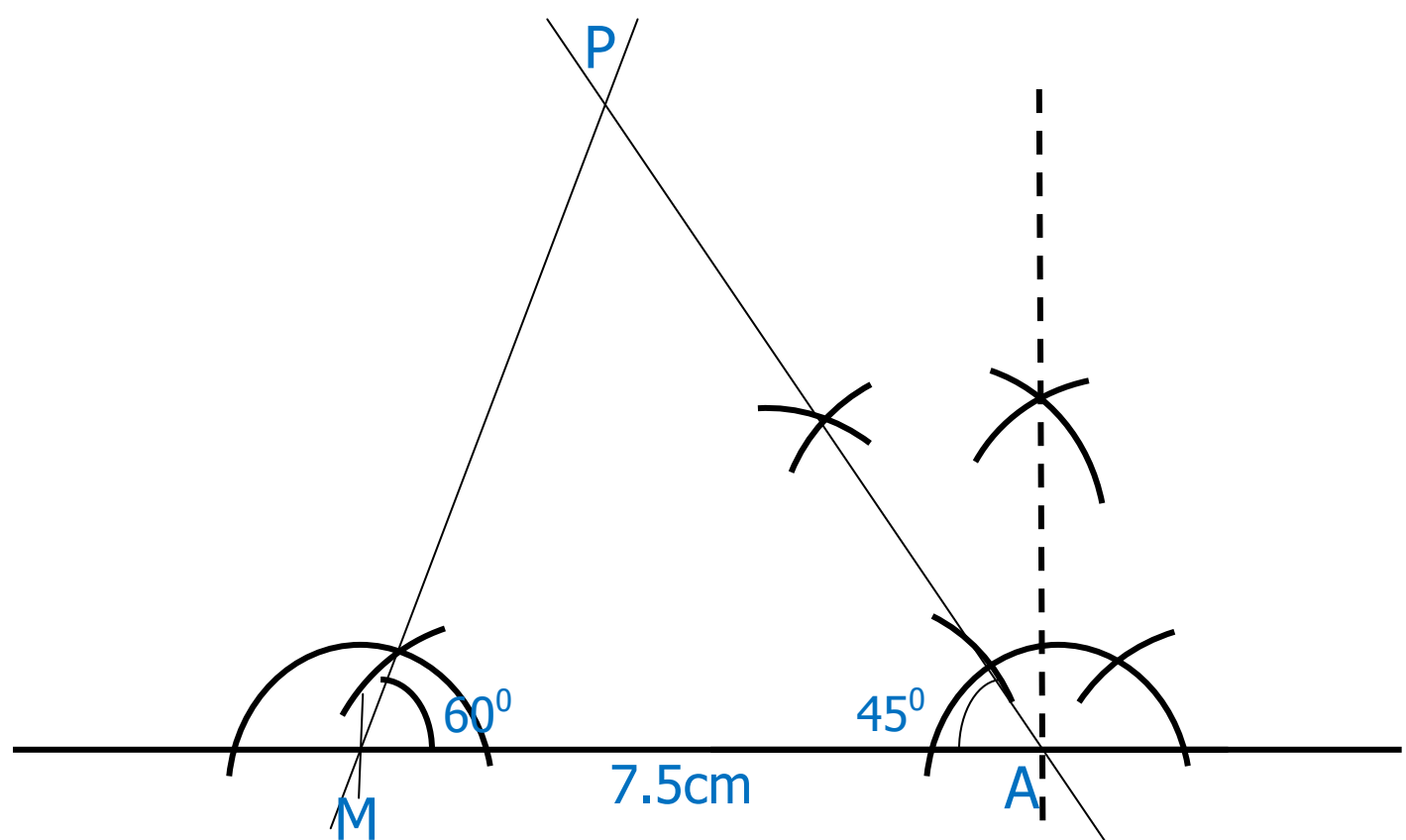
Sketch



OR:

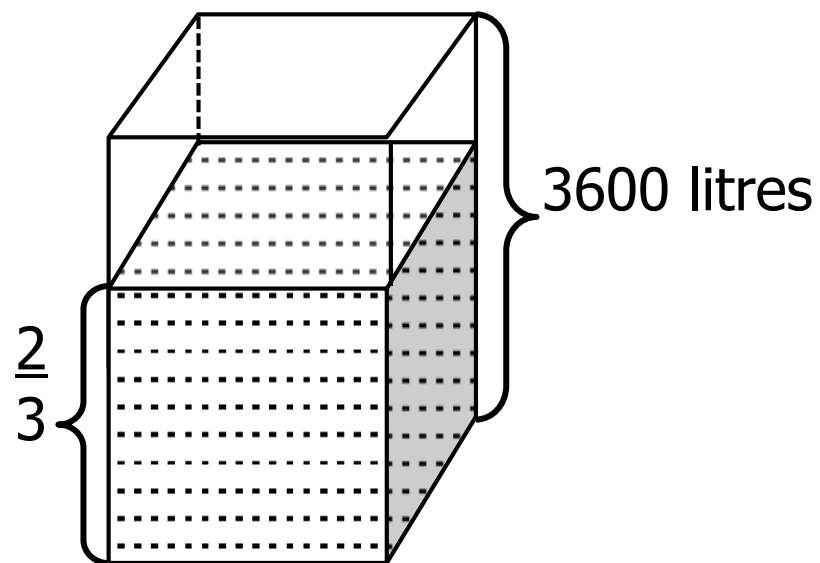


Accurate diagram



- (b) Measure the length AP 6.7 or 6.8 or 6.9cm. (01 Mark)

27. The milk tank below holds a capacity of 3600 litres when completely full. When James sold some litres of it at sh.1,200 per litre, it became $\frac{2}{3}$ full.



Topic: Length, Mass and Capacity

Class: P.6

Level: A & A

- (a) How many litres of milk did James sell for the tank to become $\frac{2}{3}$ full? (03 Marks)

Full capacity is 3600 litres

Remaining Fraction – $\frac{2}{3}$

Fraction sold – $\frac{3}{3} - \frac{2}{3} = \frac{1}{3}$

Capacity sold

$\frac{1}{3} \times \overset{1200}{3600}$ litres

$\frac{3}{1}$

1 x 1200

1200 litres

OR: 3 parts rep 3600 litres

1 part rep $\overset{1200}{\frac{3600}{3}}$

$\frac{3}{1}$

= 1200 litres

He sold 1200 litres

- (b) How much did James earn from the sold milk? (02 Marks)

1 litre costs sh.500

1200 litres will cost (sh1,200 x 1200)

=sh.1,440,000

28. 5 builders can build a classroom block in 8 months, if each builder is paid shs.20,000 per day.

(a) How much money is required to pay the builders if they Worked from 1st March up to 30th June? (04 Marks)

Topic: Fractions (Proportions)

Class: P.7

Level: C & C

Days in the months worked for

March – 31 days

April – 30 days

May – 31 days

June – 30 days

Total – 122 days

Payment per day

1 builder – sh.20,000

10 builders – sh.20,000 x 10
= sh.200,000

Builders to work for 4 months

8 months require 5 builders

1 months requires (8 x 5) builders
= 40 builders

4 months require 40 builders
4

= 10 builders

Payment for the 4 months

1 day – sh.200,000

122 days – sh.200,000 x 122
= sh.24,400,000

(b) How many less builders are needed to build the same classroom work in 10 months? (03 Marks)

8 months require 5 builders

1 months requires (8 x 5) builders
= 40 builders

10 months require 40 builders
10

= 4 builders

Less builders

5 – 4

= 1 builder

29. (a) Find the Highest Common Factor (HCF) of 8 and 12. (02 Marks)

Topic: Operations on Whole Numbers

Class: P.6

Level: K & C

2	8	12
2	4	6
	2	3

GCF = 2 x 2
= 4

OR: Using factor method

$F_8 = \{1, 2, \textcircled{4}, 8\}$

$F_{12} = \{1, 2, 3, \textcircled{4}, 6, 12\}$

GCF = 4

- (b) The sum of three consecutive odd numbers is 88. What is the range of the numbers? (04 Marks)

Let the 1st number be n

1 st no	2 nd no	3 rd no	sum
n	$n+2$	$n+4$	15

$$\begin{aligned}
 n+n+2+n+4 &= 87 \\
 n+n+n+2+4 &= 87 \\
 3n+6 &= 87 \\
 3n+6-6 &= 87-6 \\
 3n &= 81 \\
 \underline{3n} &= \underline{81} \\
 3 &= 3 \\
 n &= 27
 \end{aligned}$$

1 st no	3 rd no	2 nd no
n	$n+2$	$n+4$
<u>3</u>	$3+2$	$3+4$
	<u>5</u>	<u>7</u>

The numbers are;

3, 5, 7

Their range

$H - L$

$7 - 3$

$= 4$

30. The table below shows the number of mangoes picked by some boys in a week. Use the information to answer the question below.

Mangoes	40	m	60	70
No. of boys				

If the mean number of mangoes picked that week was 55, Find the value of m . (04 Marks)

Topic: Data Handling

Class: P.7

Level: C

METHOD I: Sum of data = Product of mean & No.

Number of data

$$2 + 6 + 3 + 3 = 14 \text{ boys}$$

Product of mean & No.

$$55 \times 14 = 770$$

Sum of data

= Product.

$$(40 \times 2) + (m \times 6) + (60 \times 3) + (70 \times 3) = 770$$

$$80 + 6m + 180 + 210 = 770$$

$$470 - 6m = 770$$

$$470 - 470 + 6m = 770 - 470$$

$$6m = 300$$

$$\underline{6}^1 m = \underline{300}^{50}$$

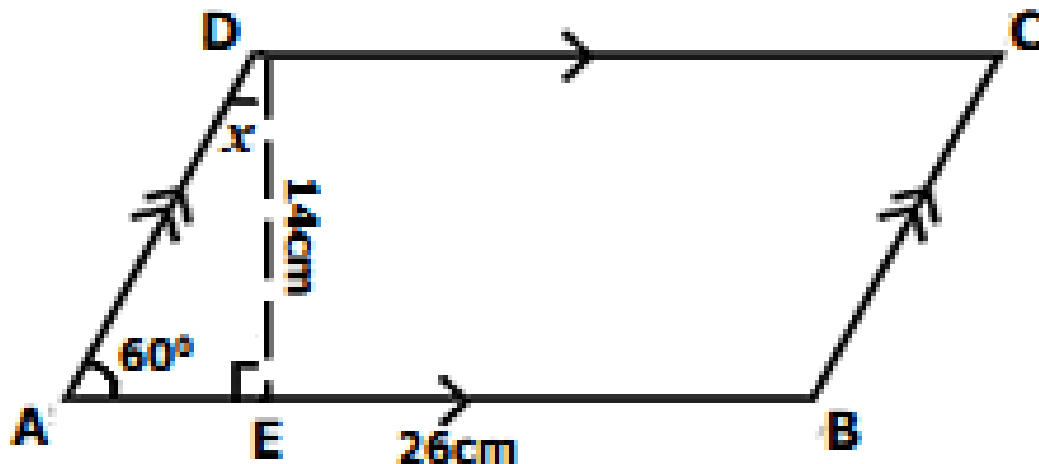
$$6_1 = 6_1$$

$$m = 50$$

METHOD II: $\frac{\text{Sum of data}}{\text{Number of data}} = \text{Mean}$

$$\begin{aligned} \frac{(40 \times 2) + (m \times 6) + (60 \times 3) + (70 \times 3)}{2 + 6 + 3 + 3} &= 55 \\ \frac{80 + 6m + 180 + 210}{14} &= 55 \\ \frac{470 - 6m}{14} &= 55 \\ 14^1 \times \frac{470 - 6m}{14_1} &= 55 \times 14 \\ 470 - 6m &= 770 \\ 470 - 470 + 6m &= 770 \\ 6m &= 300 \\ \frac{6^1 m}{6_1} &= \frac{300^{50}}{6_1} \\ m &= 50 \end{aligned}$$

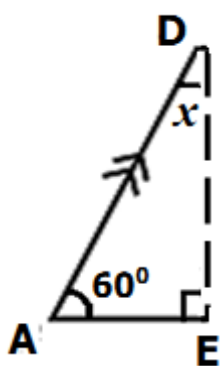
31. In the figure below, **ABCD** is a parallelogram and **AED** is a right angled triangle. Where **AB**=26cm and angle **DAE**= 60°.



Topic: Lines, Angles and Geometric figures **Class:** P.6 **Level:** C & C
 (a) Calculate the area of figure **ABCD**. (02 Marks)

$$\begin{aligned} \text{Area} &= \text{Base} \times \text{Height} \\ &= 26\text{cm} \times 14\text{cm} \\ &= \underline{364\text{cm}^2} \end{aligned}$$

- (b) Work out the size of angle **x** in degrees. (02 Marks)



Interior angles of a triangle add up to 180°

$$60^\circ + 90^\circ + x = 180^\circ$$

$$150^\circ + x = 180^\circ$$

$$150^\circ - 150^\circ + x = 180^\circ - 150^\circ$$

$$x = 30^\circ$$

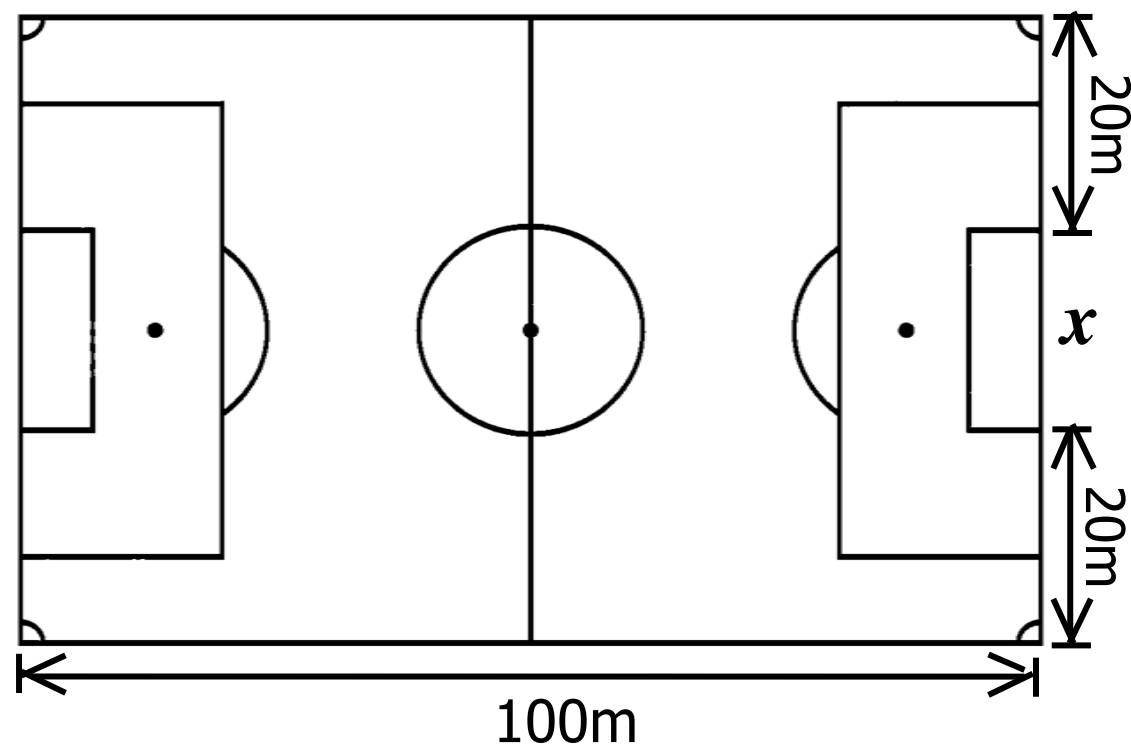
OR:

$$x = 180^\circ - (90^\circ + 60^\circ)$$

$$x = 180^\circ - (150^\circ)$$

$$x = \underline{30^\circ}$$

32. Below is a rectangular football pitch of length 100m and a width which is three quarters the length. Use it to answer the questions that follow.



Topic: Length, Mass and Capacity

Class: P.6

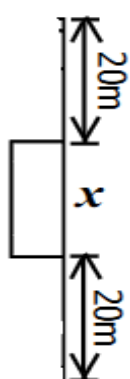
Level: C & A

- (a) Find the area of the above field. (03 Marks)

$$\begin{aligned}
 \text{Length} &= 100\text{m} \\
 \text{Width} &= \text{three quarters the length} \\
 &= \frac{3}{4} \times 100 \\
 &= 3 \times 25 \\
 &= \underline{75\text{m}}
 \end{aligned}$$

$$\begin{aligned}
 \text{Area} &= \text{Length} \times \text{Width} \\
 &= 100\text{m} \times 75\text{m} \\
 &= \underline{7500\text{m}^2}
 \end{aligned}$$

- (b) If the width between the goal posts marked x is equal to the diameter of the circle in middle of the pitch, calculate the circumference of the that circle. (Use $\pi = \frac{22}{7}$)



$$\text{Total width} = 75\text{m}$$

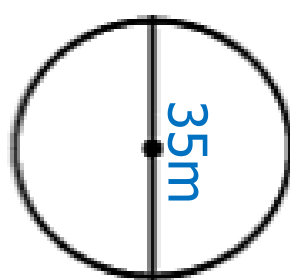
The value of x

$$x = 75\text{m} - (20\text{m} + 20\text{m})$$

$$x = 75\text{m} - (40\text{m})$$

$$\underline{x = 35\text{m}}$$

x = Diameter of the circle



$$\begin{aligned}
 \text{Circumference} &= \pi D \\
 &= \frac{22}{7} \times 35\text{m} \\
 &= 22 \times 5\text{m} \\
 &= \underline{110\text{m}}
 \end{aligned}$$