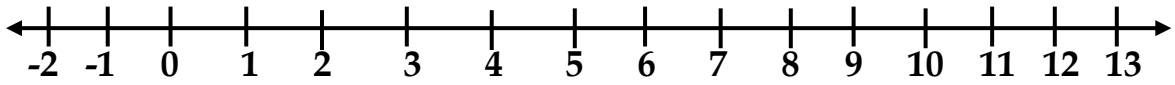
Section A (40 Marks)

1	Work out: **302 x 3**	2	Write **0.75** as a fraction in its simplified form.
3	Express **40044** in words. /	4	Given that; **set A = { C, O, V, I, D, 19}** How many proper sub sets are in set **A**?
5	**Work out 3 x 4 using a number line below.** 		
6	**Find the next number in the sequence below.** **3, 3, 5, 9, 15, _____**	7	Change **5mls** to km/hr.
8	Work out the median of: **9, -7, 0, 2, 6,** and **-2.**	9	Expand **7628** using exponents.

10	Write the place value of **0** in 1110_{two}.	11	Round off **89.972** to the nearest tenths.
12	Draw tallies to represent **23** boys.	13	A staff meeting which ended at **11:25am** lasted for **40** minutes. At what time did it start?
14	**Using a pair of compasses, a ruler and a pencil only, construct an angle of 135^0.**		
15	Solve: $2(4 - 5p) = -22$	16	Work out: $1\frac{2}{3} - \frac{3}{4}$

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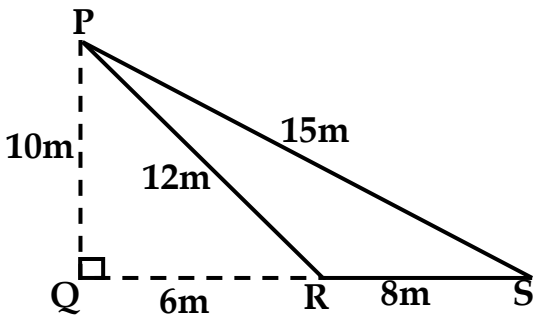
17	Express **7364.5** in standard form.	18	If **3** books cost **sh.4500,** how many books will be bought with **sh.16500?**
19	**Work out the area of triangle PRS.**  	20	Work out: **m** **cm** **7** **55** **+ 2** **70** _____ _____

Section B (60 Marks)

21 (a) Change 1011_{two} to decimal base. *(02 marks)*

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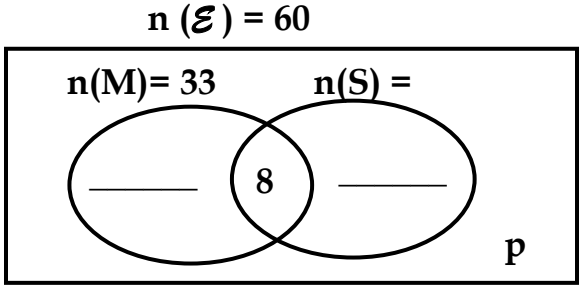
(b) Write **XCVI** in Hindu-Arabic numerals. *(02 marks)*

(c) Work out the value of **7** in **37048**. *(01 mark)*

22 **In a class of 60 pupils, 33 like Mathematics (M), 21 like Science (S) only, 8 like both subjects while P like none of the mentioned subjects.**

(a) Complete the Venn diagram below. *(02 marks)*



(b) Find the value of **P**. *(02 marks)*

(c) What is the probability of choosing a pupil at random that she/he does not like Science at all? *(01 mark)*

23 **Rose went to the market and bought the following items.**

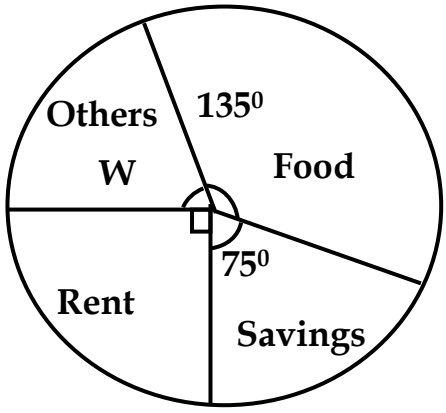
(a) Complete the table below.

Item	Quantity	Unit price	Total cost	
Soap	**3 bars**	**sh._____**	**sh. 11100**	*(01 mark)*
Sugar	**2kg 500gm**	**sh.3500**	**sh._____**	*(01 mark)*
Rice	**_____kg**	**sh.4200**	**sh.5600**	*(01 mark)*
Total expenditure			**sh._____**	*(02 marks)*

24 (a) **Gladys** is three times as old as her daughter **Whitney**. The difference between their ages is **58years**. How old is **Gladys**? *(03 marks)*

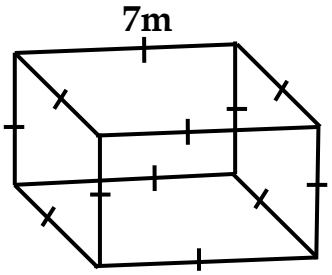
(b) Simplify: **3W – (3 -2W)** *(01 mark)*

25	(a) **Using a pair of compasses, a ruler and a sharp pencil only, construct triangle VTU where by line VT = 6cm, angle VTU = 90^0 and angle V = 30^0** ***(04 marks)*** (b) Measure line **VU** ***(01 mark)***
26	(a) Workout: $\frac{2.4 \times 0.03}{0.2 \times 0.18}$. ***(03 marks)*** (b) If $\frac{3}{4}$ of a number is **12**, what is the number? ***(02 marks)***

27	The sum of **3** consecutive even numbers is **36**. If the largest number is P: (a) Find the value of **P**. ***(03 marks)*** (b) Work out the product of the **2nd** and **3rd** numbers. ***(02 marks)***
28	**The pie-chart below shows how a teacher spends his monthly salary of sh.104,000. Use it to answer the questions that follow.**  (a) Find the value of **W.** ***(02 marks)*** (b) How much more money does he spend on Food than Rent? ***(02 marks)***

(c) Express the sector for Rent as a percentage. *(01 mark)*

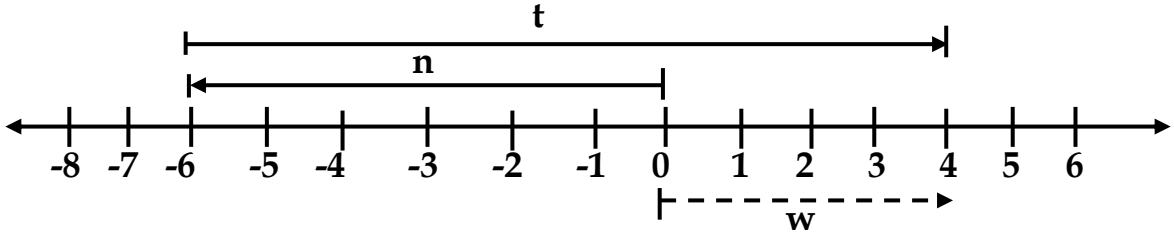
29 **Use the figure below to answer the questions that follow.**



(a) Calculate its total surface area. *(03 marks)*

(b) Work out its volume. *(03 marks)*

30 **Use the number line below to answer the questions that follow.**



(a) Write the integers represented by: *(01 mark each)*

n = _____ **t** = _____ **w** = _____

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	(b) Write the mathematical statement shown on a number line. *(02 marks)*
31	(a) Work out the square root of **0.81**. *(02 marks)* (b) Without dividing, show if **2046** is divisible by **6**. *(02 marks)* (c) Use distributive property only to work out. **(36 ÷ 3) + (12 ÷ 3)** *(02 marks)*
32	A motorist left home driving at a speed of **60km/hr** for **2 hours** to town. He rested for **half an hour** before continuing to the market at a speed of **80km per hour** where he reached in $1\frac{1}{2}$ hours later. Calculate the average speed of the whole journey. *(04marks)*

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