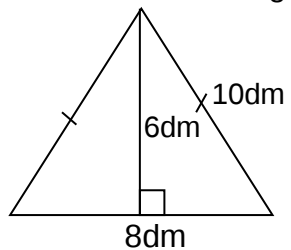


SECTION A: (40 MARKS)

1. Multiply: 22×4

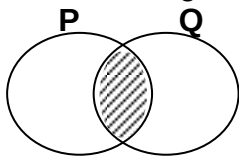
2. Write 54 in Roman numerals.

3. Find the area of the figure below.



4. What is the place value of 4 in the figure 4.37?

5. In the venn diagram below describe the shaded part.



6. What number has been prime factorized to get $\{2_1, 2_2, 3_1, 3_2\}$?

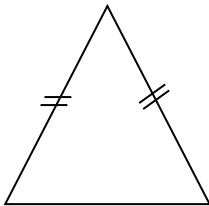
7. Work out: $\frac{1}{2} + \frac{1}{3}$

8. A fountain pen costs Shs 6000. Jaliah bought 5 fountain pens. How much money did she pay?

9. Work out: $-7 + +5$

10. Given that  represents 10 trees. How many trees are represented by  ?

11. How many lines of folding symmetry does the figure below have?



12. Muwonge's cow produced 45 litres of milk in one week. Muwonge sold all the milk in $\frac{1}{2}$ litre bottles. How many $\frac{1}{2}$ litre bottles of milk did he sell?

13. Write in figures: Twelve thousand four hundred two.

14. Divide: 1818 by 3.

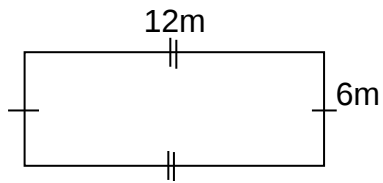
15. Change $4\frac{1}{2}$ kg to grams.

16. Find the average of 70, 80, 90, 60.

17. Solve for x: $2x + 4 = 12$

18. Use a protractor to draw an angle of 75° .

19. Find the total distance around the figure below.

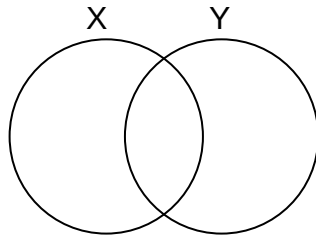


20. Work out:
- | HR | MIN |
|-------|-----|
| 8 | 30 |
| - 4 | 40 |
| ----- | |

SECTION B (60 marks)

21. Given that set $X = \{a, b, c, d, e, f\}$, $Y = \{a, e, i, o, u\}$.
 (a) Show the above information on the venn diagram below.

(2 marks)



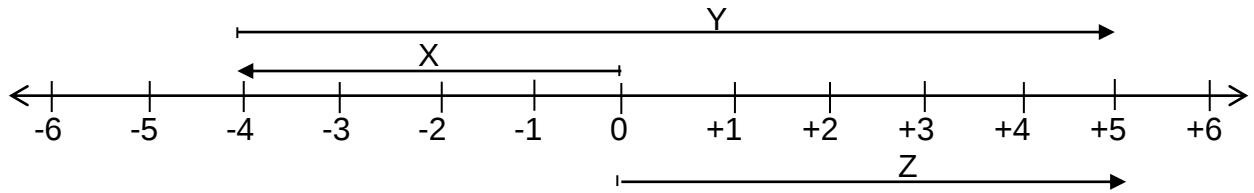
- (b) Find: (i) $n(X \cup Y)$ (1 mark each)

(ii) $Y - X$

(iii) $X \cap Y$

22. In a farm of 120 animals, $\frac{2}{3}$ are cows and the rest are sheep.
- (a) Find the fraction of sheep on the farm. (1 mark)
- (b) How many cows are there on the farm? (2 marks)
- (c) How many more cows are there than sheep? (2 marks)
23. Mary went to a shop and bought the following items.
- 2 kg of sugar at sh. 2800 per kilogram.
 - 3 bars of soap at sh. 6000.
 - 1 $\frac{1}{2}$ litres of paraffin at sh. 2900 per litre.
 - transport sh. 3000
- (a) How much money did she spend altogether? (3 marks)
- (b) If she had sh. 20000 before shopping, what was the balance? (2 marks)

24. Study the number line below and answer the questions that follow.



- (a) Name the integers represented by:- (1 mark each)
- (i) Arrow X _____
- (ii) Arrow Y _____
- (iii) Arrow Z _____
- (b) Write the mathematical statement for the above number line. (2 marks)
25. The table above shows marks obtained by a pupil in end of year exams. Use it to answer questions that follow.

ENGLISH	MATHS	SCIENCE	SST	COMPUTER
65	90	70	70	55

- (a) Find the median mark. (1 mark)
- (b) Find the range. (1 mark)
- (c) What is the modal mark? (1 mark)

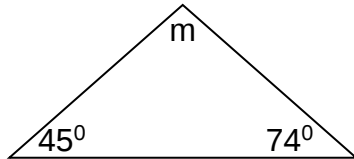
(d) Calculate the average mark.

(2 marks)

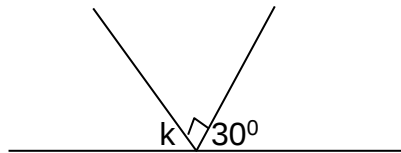
26. Calculate the values of unknown angles.

(2 marks each)

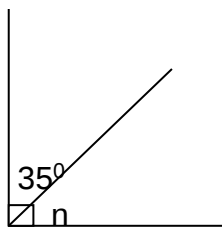
(a)



(b)



(c)



27. (a) A mathematics lesson of 40 minutes started at 9:50 a.m. When did it end?

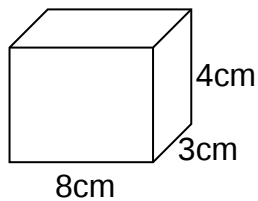
(2 marks)

- (b) A taxi was moving at a speed of 80km per hr. It moved for 3 hours. What distance did it cover? *(2 marks)*

28. (a) Arrange $\frac{1}{2}$, $\frac{3}{4}$, $\frac{5}{6}$ in descending order. *(2 marks)*

- (b) What is the reciprocal of $1\frac{1}{2}$? *(3 marks)*

29. Study the figure below and find;
(a) its volume. *(2 marks)*



- (b) the number of;
(i) edges *(1 mark each)*

- (ii) faces

- (iii) vertices

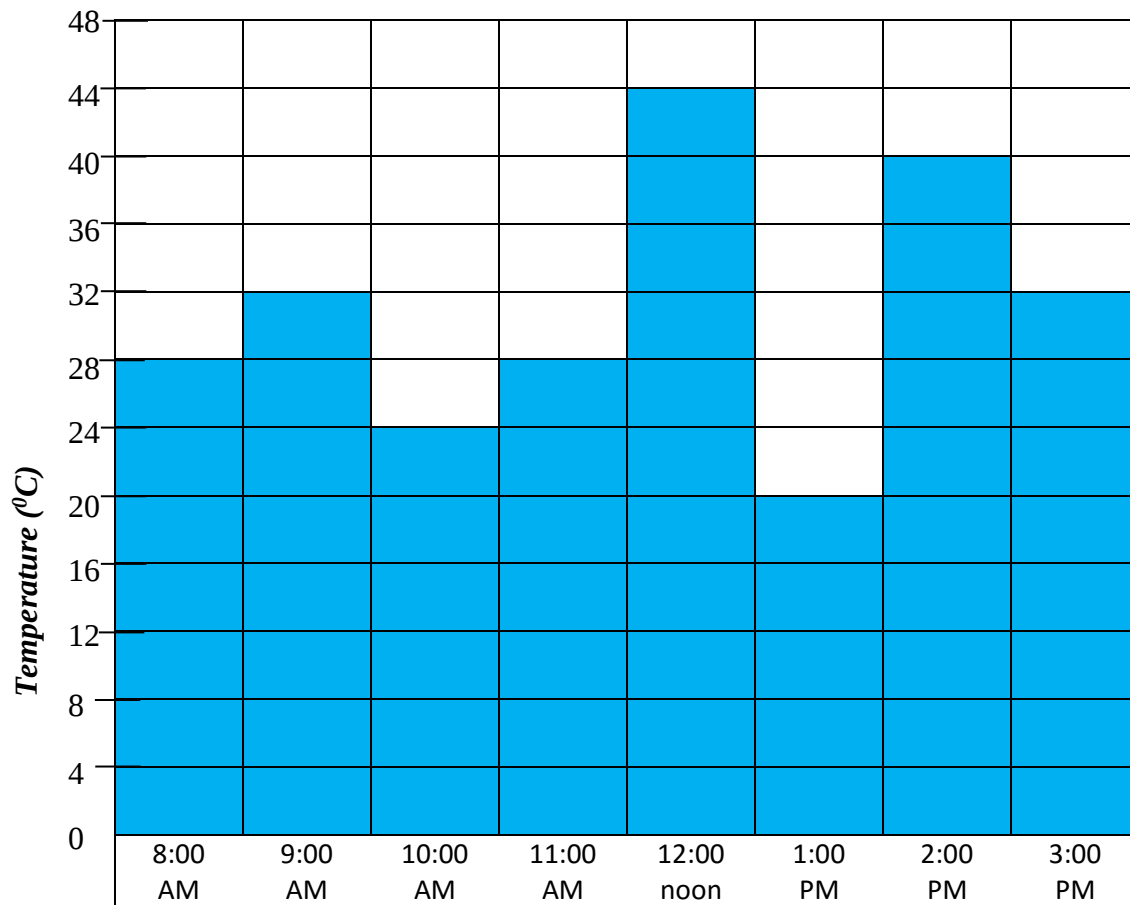
30. Using a ruler and a pair of compasses only, construct a regular hexagon in a circle of radius 4cm. (4 marks)

31. (a) Solve for the unknown in; (2 marks each)
(i) $2x - 17 = 19$

(ii) $\frac{y}{3} = 7$

- (b) If $a = 2$, $b = 5$ and $c = 4$ find the value of $3c + a - b$.

32. The graph below shows the temperature record during a day in degrees celsius. Use it to answer questions that follow. (1 mark each)



- What was the highest temperature that was recorded?
- At what time was the temperature lowest?
- What was the temperature at 9:00 a.m.?
- Find the range.
- At what time was the temperature 24°C?

Good Luck