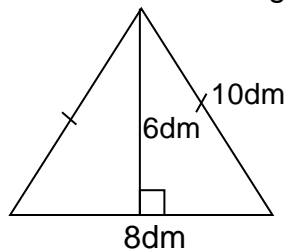


SECTION A: (40 MARKS)

1. Multiply: 22×4

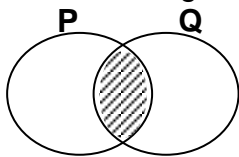
2. Write 54 in Roman numerals.

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 $\{2_1, 2_2, 3_1, 3_2\}$?

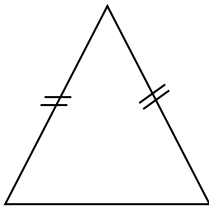
7. Work out: $\frac{1}{2} + \frac{1}{3}$

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.

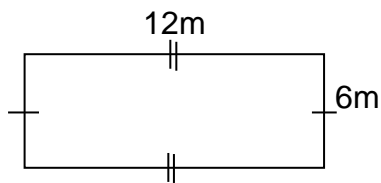
15. Change $4\frac{1}{2}$ kg to grams.

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.

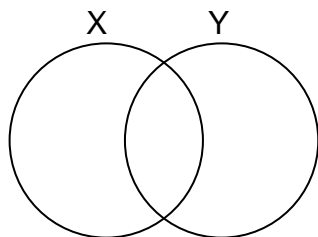


20. Work out:
- | HR | MIN |
|-------|-----|
| 8 | 30 |
| - 4 | 40 |
| ----- | |

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)



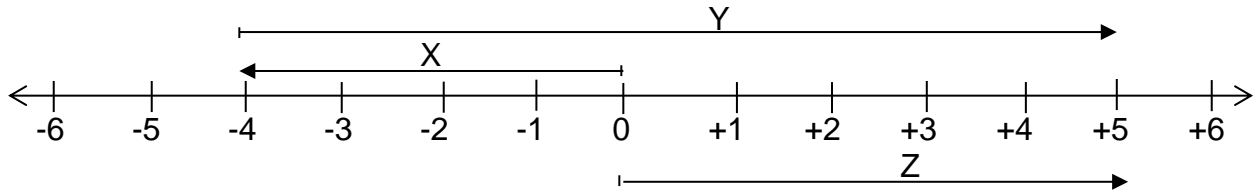
- (b) Find: (i) $n(X \cup Y)$ (1 mark each)

(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)

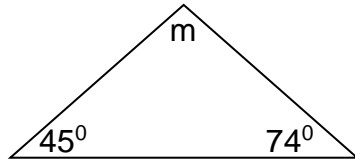
(d) Calculate the average mark.

(2 marks)

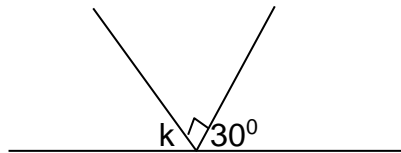
26. Calculate the values of unknown angles.

(2 marks each)

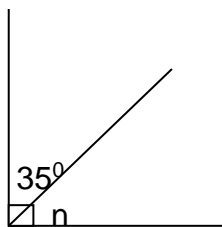
(a)



(b)



(c)



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

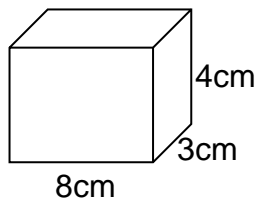
(2 marks)

- (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

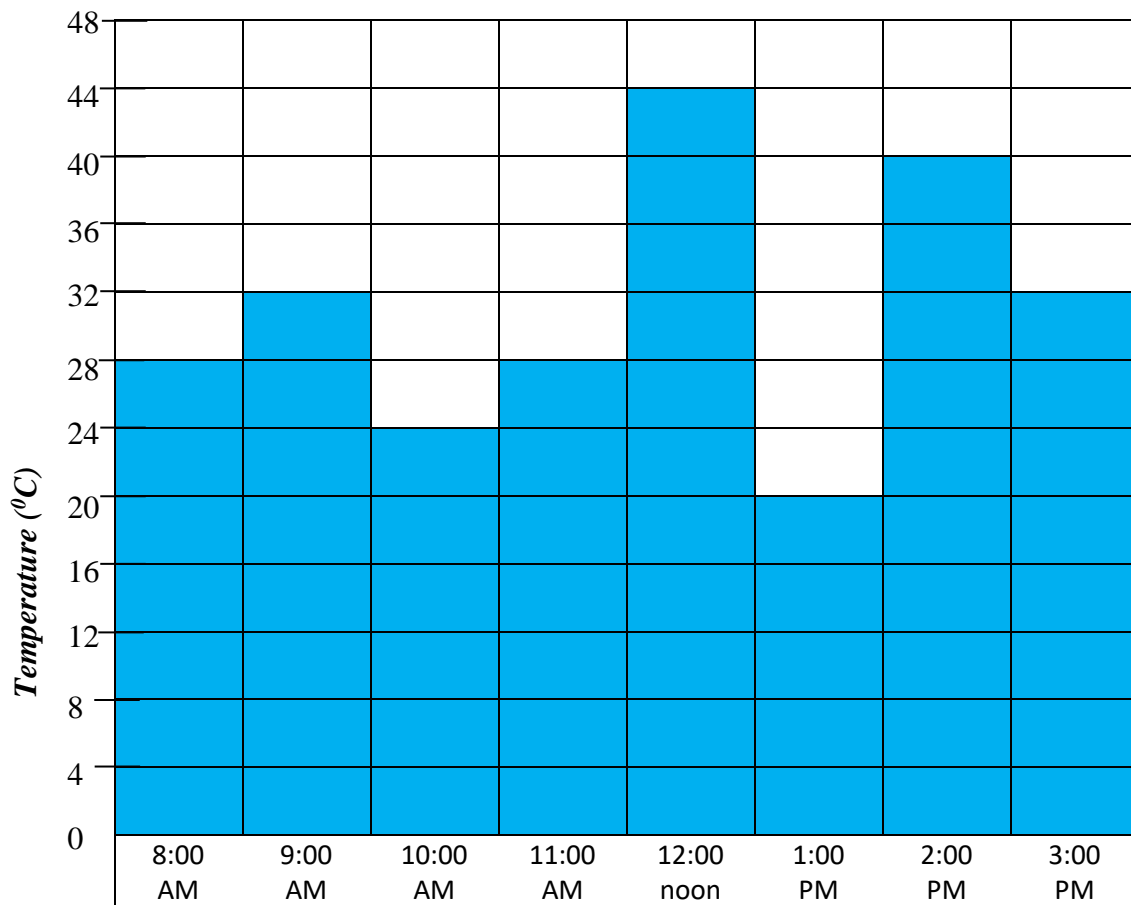
30. Using a ruler and a pair of compasses only, construct a regular hexagon in a circle of radius 4cm. (4 marks)

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