

SECTION A: 40 MARKS

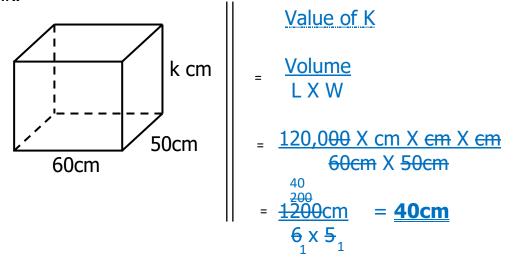
Answer **all** questions in this Section Questions **1** to **20** carry two marks each.

1. Add: 3076 + 6

2. Write 505,050 in words.

Five hundred five thousand, fifty.

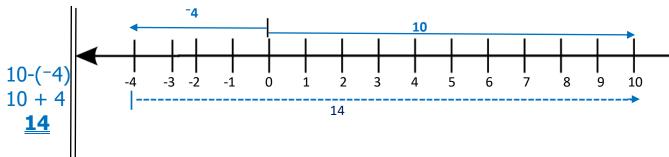
3. The volume of the tank below is 120,000cm³. Find the height of the tank.



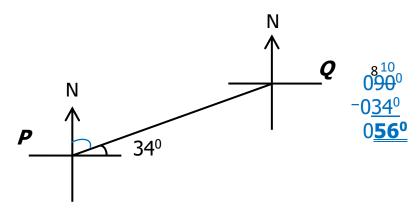
4. Francis banked sh. 60,000 in Crane Bank. If the interest rate was 8% per annum. How much did he earn after nine months?

1

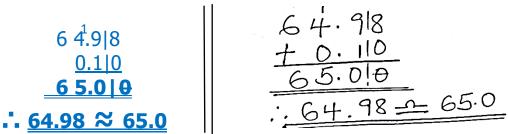
5. Simplify: +10 - -4



6. Use the sketch diagram below to find the bearing of town \boldsymbol{Q} from \boldsymbol{P} .



7. Round off 64.98 to the nearest tenths.

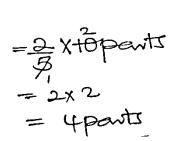


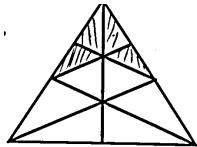
8. A wheel of diameter 28cm is rolling along the path of 176m. How many revolutions does it make?

Tevolutions does it make?

$$C = TID$$
 $C = 32 \times 28 \text{ cm}$
 $C = 32 \times 28 \text{ cm}$
 $C = 32 \times 28 \text{ cm}$
 $C = 32 \times 40 \text{ cm}$
 $C =$

9. Shade $\frac{2}{5}$ on the figure below.





10. Simplify: 0.48×0.14

$$\begin{array}{c|c}
0.6 \\
\hline
(0.48 \times 0.14) \div 0.6 \\
= (48 \times 14) \div 6 \\
100 & 100 \\
\hline
-486 \times 14 \times 10 \\
100 & 63
\end{array}$$

$$\begin{array}{c|c}
-16 \times 14 \times 1 \\
\hline
-100 & 100 \\$$

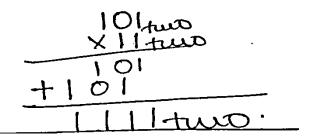
11. The base area of a cylindrical tank is 1386cm². Find its capacity if it has a height of 100cm. (Use $\pi = \frac{22}{7}$)

$$\begin{array}{c|c} \hline \text{Capacity} & = 1386 \text{ ch} \times \text{ch} \times 100 \text{ ch}, \\ \hline = \text{Volume} & 1000 \text{ ch} \times \text{ch} \times \text{ch} \\ \hline = \text{Volume} & = 1386 \times 100 \text{ L} \\ \hline = \text{Race Area} \times \text{h} & 1000 \text{ ch}^3 & = 138.6 \text{ L} \\ \hline \end{array}$$

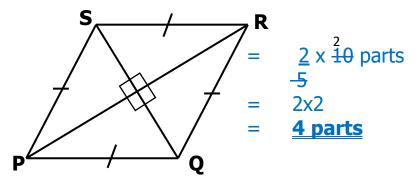
12. Express 0.070707... as a common fraction in its simplest form.

Uet a be The fraction.
$$| 100a = 7.070707 | \frac{97a}{99} = \frac{7}{99}$$
 $| 0.070707 \cdot \dot{\upsilon} | \frac{2}{99a} = \frac{0.070707}{99a} = \frac{97a}{99} = \frac{7}{99}$
 $| 100xa = 0.07070707 \times 100 | 99a = 7.00000 | a = \frac{7}{99}$

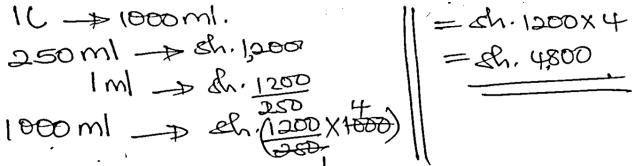
13. Multiply: $101_{two} \times 11_{two}$



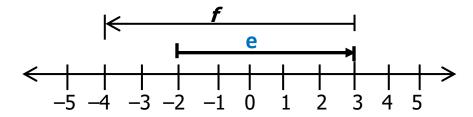
14. Below is a rhombus **PQRS**. PR = 16cm and SQ= 12cm. Calculate its perimeter.



15. Mango juice is sold in 250ml sachets. How much money would Joseph pay for 1 liter of juice if each sachet costs sh. 1,200?



16. Write the integers that are represented by the arrows e and f.



- (i) **e** +5
- (ii) **f** -7

17. The table below shows marks scored by some pupils in Primary Six class at a certain school. Use it to find their median mark.

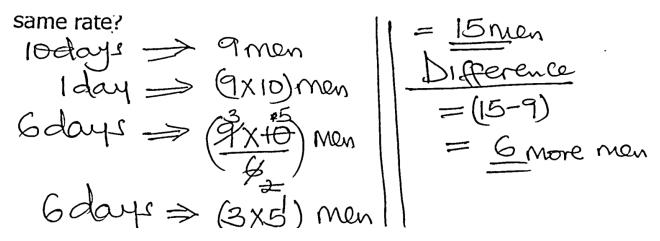
| | No. of pupils | 2 | 3 | 1 | 2 | | | | |
|---------------------------------------|---------------|---------|----|----|----|--|--|--|--|
| | Marks scored | 60 | 75 | 95 | 55 | | | | |
| 55, 55, 60,60, 75, 75, 75, 95 = 675mk | | | | | | | | | |
| | Median | nks = | | | | | | | |
| | | | | | | | | | |

18. A car travels for 20 minutes at the speed of 90km/hour. Find the distance it covers.

19. Find the next two numbers in the sequence:

81, 64, 49, 36,,

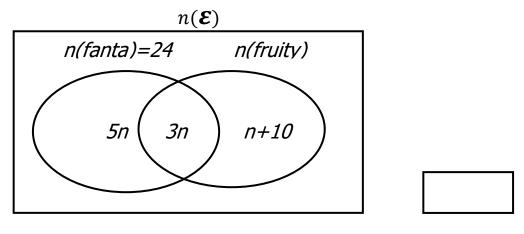
20. Nine men take 10 days to slash a school compound. How many more men are needed to slash the same compound in only 6 days working at the same rate?



SECTION B: 60 MARKS

Answer **all** questions in this Section Marks for each question are indicated in brackets

21. The Venn diagram below shows different drinks of sodas taken by different people at a certain party. Study and use it to answer the questions that follow.



(a) Find the value of *n*.

(02 Marks)

$$n(E) = (n+10)+24$$

= 3+10+24
: $n(E) = 37$

(b) How many people attended the party?

(02 Marks)

$$n(\epsilon) = (n+10) + 24$$

= $3+10+24$
 $\therefore n(\epsilon) = 37$

(c) What is the probability of picking a person who took only fruity to be the MC? (02 Mark)

$$Prob(E)n(F)$$
 only $= \frac{3+10}{37}$
 $= n(E)$ $= \frac{13}{37}$
 $= \frac{13}{37}$

22. Muliika went with twenty thousand shilling note to the market and bought the following items.

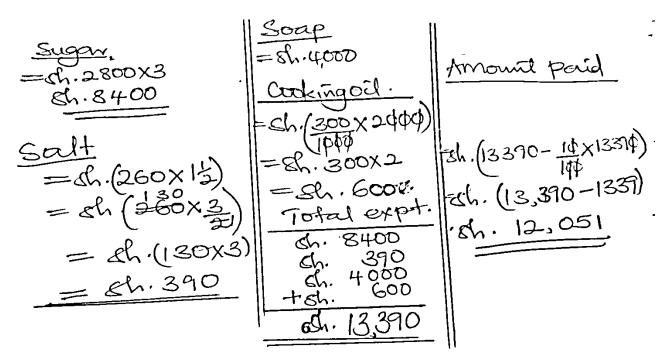
3kg of sugar at sh 2,800 per kg.

 $1\frac{1}{2}$ kg of salt at sh 260 per kg.

4 bars of soap for sh 4,000.

300ml of cooking oil at sh 2,000 per liter.

(a) If he was given a discount of 10%, how much did he pay for all items? (04 Marks)



(b) How much in Kenyan shillings did Muliika pay after the discount if Ksh 1 = Ugsh 30? (01 Mark)

23. Mweruka wants to fence her rectangular plot of land which is 225m by 165m with poles placed 3m apart.

(a) How many poles will she need? (03 Marks)

No. of Poles

$$= \frac{2(225 \text{ m} + 165 \text{ m})}{2 + 165 \text{ m}} = \frac{260}{3 \text{ m}}$$

$$= \frac{2(140)}{3 \text{ m}} = \frac{260}{3 \text{ m}}$$

(b) If each pole costs sh 2,000. How much will she spend on fencing her plot of land? (02 Marks)

1 pole
$$\longrightarrow$$
 sh. 2,000
260 poles \longrightarrow sh. (260 x 2,000)
= **sh. 520,000**

Use the equation y = 2x + 4 to complete the table below. 24.

(04 Marks)

| × | -3 | – 2 | <u>-1</u> | 0 | 1 | 2 | | | |
|---|----|------------|-----------|---|---|---|--|--|--|
| У | 10 | 8 | 6 | 4 | 2 | 0 | | | |

$$y = (2x-2)+4$$

$$y = 4+4$$

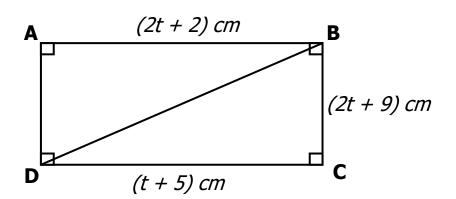
$$y = 8$$

$$y = (-2x-1)+4$$

$$y = 2+4$$

$$y = 6$$

Below is a rectangle **ABCD**. Use it to answer the questions that follow. 25.



(a) Find the value of t.

(02 Marks)

$$(2t+2)ch = (t+5)ch | t+2-2=5-2$$

$$2t+2 = t+5$$

$$2t-t+2 = t-t+5$$

$$t+2 = 5$$

Find the length of the diagonal **DB**. (b)

$$DC = (3+5)Cm$$

$$= 8Cm$$

$$BC = (2x3+9)Cm$$

$$= (6+9)Cm$$

$$= 15Cm$$

$$DB^{2} = 8C^{2} + DC^{2}$$

$$= (8cm)^{2} + (15cm)^{2}$$

$$= (6+9)Cm$$

$$= 15Cm$$

$$DB^{2} = 8C^{2} + DC^{2}$$

$$= (8cm)^{2} + (15cm)^{2}$$

$$= (6+9)Cm$$

$$= 15Cm$$

$$DB^{2} = 8C^{2} + DC^{2}$$

$$= (8cm)^{2} + (15cm)^{2}$$

$$= (6+9)Cm$$

$$= 15Cm$$

(a) Solve the equation: $2 - \frac{2x}{3} = 4$. 26. (02 Marks)

$$2 - \frac{2x}{3} = 4$$

$$2x3 - \frac{2x}{3} = 4x3$$

$$6 - \frac{3}{2} = 12$$

$$6 - 6 - 22e = 12 - 6$$

$$6 - 6 - 22e = 12 - 6$$

(b) Simplify: $\frac{2}{3}(6w-3)-\frac{1}{2}(4-2w)$

$$\frac{3(6w-3)-1(4-2w)}{2x^{2}w-2x^{2}-1x^{2}+1x^{2}w} = \frac{5w-4}{2}$$

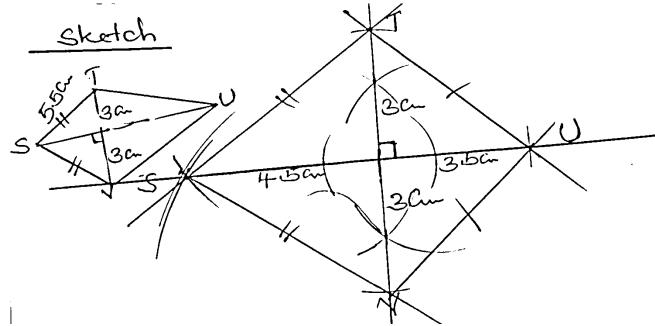
$$\frac{3(6w-3)-1(4-2w)}{3x^{2}w-2x^{2}-1x^{2}+1x^{2}w} = \frac{5w-4}{2}$$

$$\frac{3(6w-3)-1(4-2w)}{3x^{2}w-2x^{2}-1x^{2}+1x^{2}+1x^{2}w} = \frac{5w-4}{2}$$

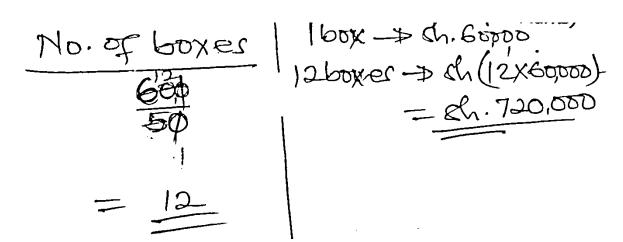
$$\frac{3(6w-3)-1(4-2w)}{3x^{2}w-2x^{2}-1x^{2}+1x^{2}+1x^{2}w} = \frac{5w-4}{2}$$

$$\frac{3(6w-3)-1(4-2w)}{3x^{2}w-2x^{2}-1x^{2}+1$$

27. (a) Using a ruler, a pencil and a pair of compasses only, construct a kite **STUV** in which ST = SV = 5.5cm, SU = 8cm and TV = 6cm. (04 Marks)



- (b) Measure length TU <u>4.6 / 4.7 / 4.8</u> cm (01 Mark)
- 28. Tajiri covered his living room which measures 9m by 6m with square tiles of 30cm each side.
- (a) How many tiles were used? (03 Marks) $|M \rightarrow 100 \text{Cm} | W = (6 \times 100) \text{cm} | = \frac{98 \times 68}{3} = \frac{30 \times 30}{30} = \frac{30 \times 30}{30} = \frac{600 \text{ Cm}}{30 \times 30} = \frac{900 \text{ Cm}}{30 \times 30} = \frac{900 \text{ Cm}}{30 \times 30} = \frac{600}{30} = \frac{60$
 - (b) If at the Hardware, 50 tiles are packed in the box and each box costs sh 60,000, how much did Tajiri spend on buying the tiles? (02 Marks)



29. (a) The interior angle of a regular polygon is 135°. What is the name of the polygon? (02 Marks)

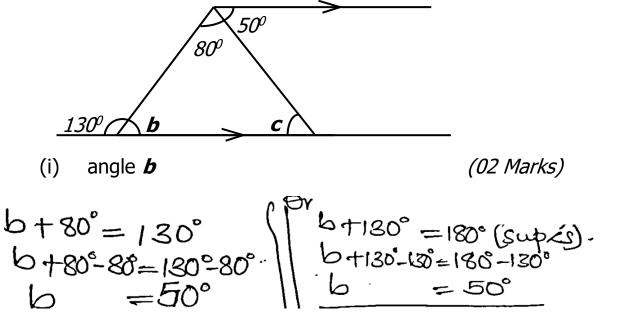
Ext
$$Z = (180-135)^{\circ} = \frac{360^{\circ}}{360^{\circ}}$$
 The polygon is on octogon

No. of cides

= $\frac{45^{\circ}}{50^{\circ}} = \frac{85ides}{50^{\circ}}$ and octogon

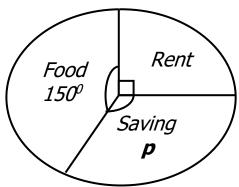
Each ext Z

b) In the figure below, find the size of angles **b** and **c**.



$C = 50^{\circ} (alt < S)$

30. The pie chart below shows how Mrs. Kasoone spends her salary per month.



Find the value of \boldsymbol{p} in degrees. (a)

(02 Marks)

(b) If Mrs. Kasoone spends shs. 450,000 on food every month. How much does she earn in a year? (03 Marks)

360° -> ch. 3000x360:... = ch. 1,080,000}/ 12months -> 1-year:

12 months => &.1,080,000 x12) m 12 months => ch (1,080,000x12) Turn 11_gh.12,960,000

- 31. Apuuli is 4 years older than Amooti, while Akiiki is 2 years younger than Apuuli. The total age of Apuuli and Amooti is 28 years.
 - (a) How old is Akiiki?

(03 Marks)

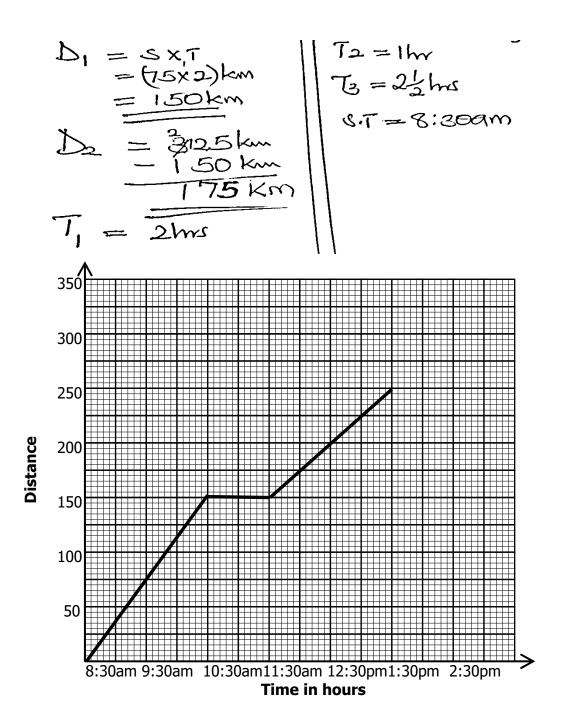
2a - 4+4 = 28+4 (03 Marks) 12a = 22/6 24 = 164sAkiikikage = (a - 2) = 16-2 = 1446

(b) How old will Apuuli be in 2 years time to come? (02 Marks)

Now — _____ 16 yrs

2 years to come

- = 16 + 2
- = <u>18 years.</u>
- Odeke travelled from town \mathbf{A} to town \mathbf{C} a distance of **325 km**. He started the journey at 8:30 a.m and drove at a speed of 75 kph for 2 hours. He rested for 1 hour at town \mathbf{B} and then continued to town \mathbf{C} for $2\frac{1}{2}$ hours.
 - (a) Show how Odeke travelled on the graph below. (03 Marks)



(b) At what time did Odeke arrive at town *C*? (02 Mark)

1:30 pm

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