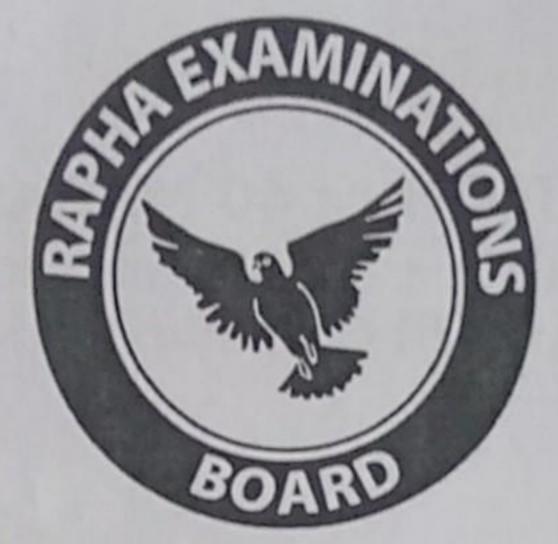
Guide compiled by Tr. Alex



RAPHA EXAMINATIONS BOARD

" Education is an investment"

P.7 STANDARD EXAMINATIONS SET 15

MATHEMATICS

Time allowed: 2 Hours 15 Minutes

				1111111			
Cand	idate	' Name	e:	 	 	 •••••	
Cand	lidate	's Sign	nature:	 	 	 	••••••

Read the following instructions carefully:

Random No.

1. This paper has two sections: A and B.

District Name:....

- 2. Section A has 20 questions (40 marks)
- 3. Section B has 12 questions (60 marks)
- 4.Answer all questions . all answers to both sections A and B must be written in the spaces provided.
- 5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in a pencil.
- 6. Unnecessary changes in your work may lead to loss of marks.
- 7. Any handwriting that cannot be easily read may lead to loss of marks.
- 8.Do not fill anything in the table indicated:
 "FOR EXAMINERS' USE ONLY" and
 boxes inside the question paper.

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FOR EXAMINERS' USE ONLY						
Qn. No	MARKS	EXR'S No.				
1 - 10						
11 - 20						
21 - 22						
23 - 24						
25 – 26						
27 - 28						
29 – 30						
31 - 32						
TOTAL						

Personal No.

TURN OVER

SECTION A: 40 MARKS

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

1. Find the reciprocal of $(\frac{1+1}{43})$ $\frac{1}{4} + \frac{1}{3} = \frac{3+4}{12}$ Reciprocal $\Rightarrow 1 + \frac{7}{12}$ $|x| = \frac{1}{2}$

2. Determine the square root of the next number in the series below;

0, 4, 10, 18, 27, 37 +4 +6 +8 +4 (Composite nos)

3. Write CXCIX in the Hindu Arabic format.

100 + 80 + 90 + 9

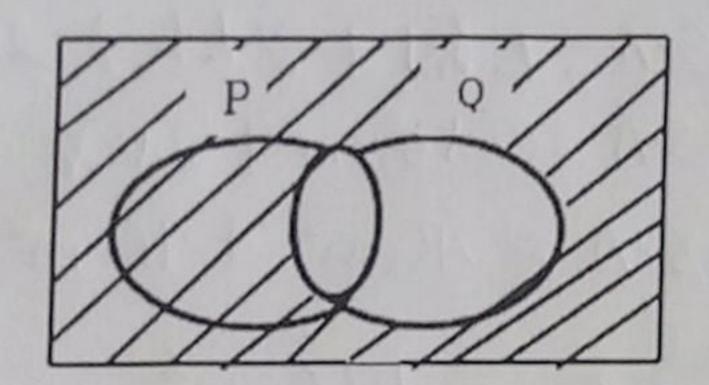
4. Solve the equation if Y=4; PY+2=10Y

Pxy+2=10xy Pxy

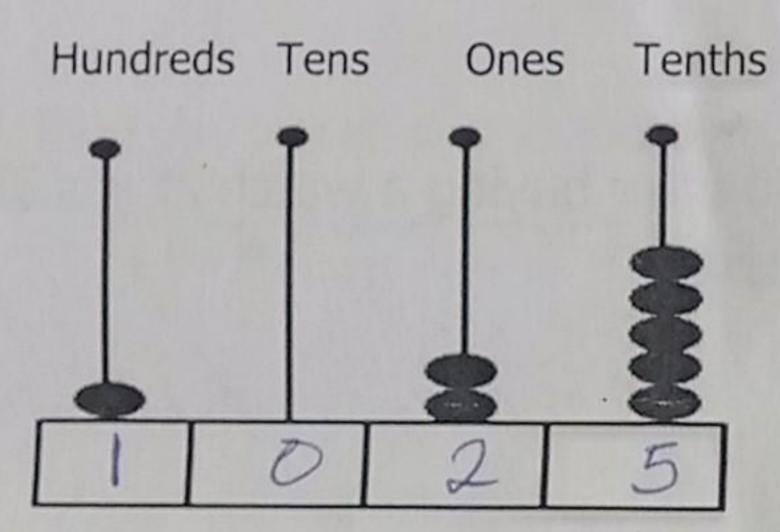
5. Use exponents to expand 94.06

(9×10') + 4×10°+(6×10-2)

6. Describe the shaded region

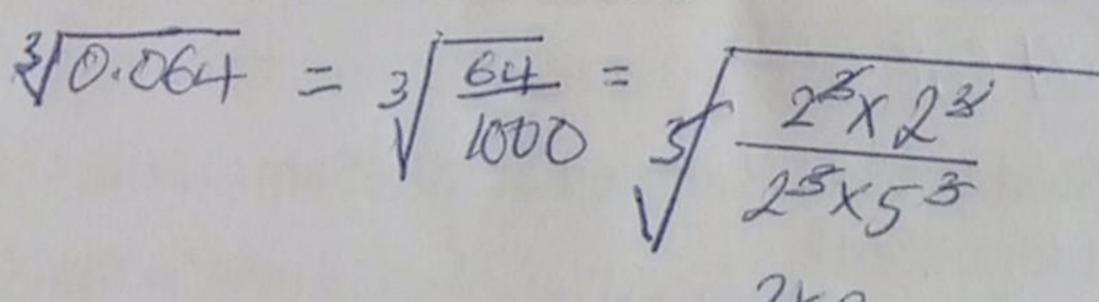


7. Write the number represented on the abacus in words



102+5 feuths 102+5 x 10 102+50 102+50

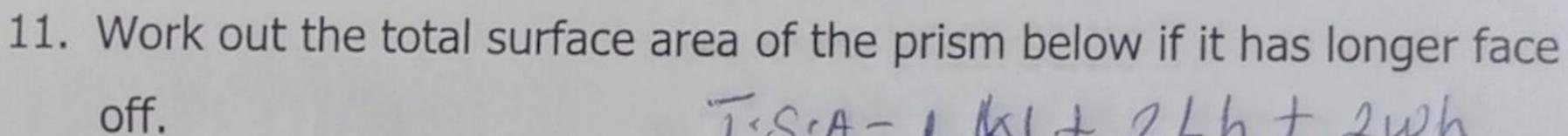
8. Find the cube root of 0.064.

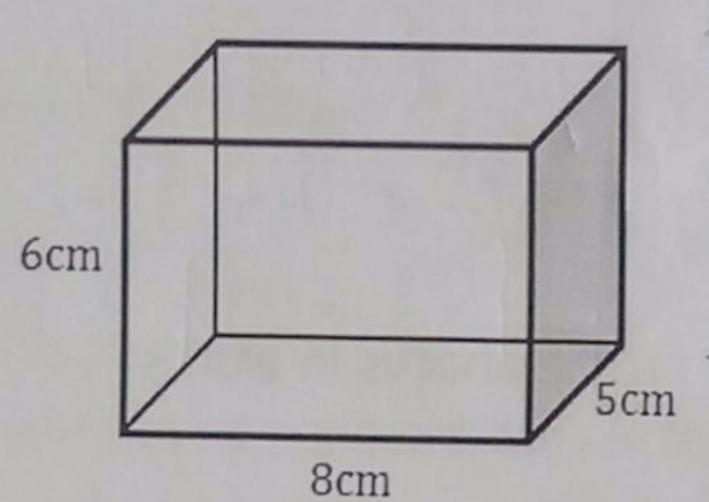


9. Write in short: (6.4 x 10-4)

0.000 64 10. Calculate the distance covered in 9 seconds at an average speed of 40 meters in every second?

$$D = SXT$$
 $D = 40m \times 98$
 $D = 40m \times 9$
 $D = 40m \times 9$
 $D = 360m$





$$T \cdot S \cdot A = L kN + 2Lh + 2wh$$

 $T \cdot S \cdot A = (8x5)(m^2 + (2x8x6)(m^2 + (2x5x6)(m^2 + 2x5x6)(m^2 + 60cm^2)$
 $T \cdot S \cdot A = 40cm^2 + 96cm^2 + 60cm^2$
 $T \cdot S \cdot A = 196cm^2$

12. Musa made a profit of shs.4950 after buying a watch at shs.35900. Find the price he sold the watch at.

13. A meeting that lasted for 3.5hrs ended at 10:45am At what time did it kick start?

Suration: 3.5h
$$\rightarrow$$
 3h 30min
 $S:\overline{f} = F:\overline{1-b}$
H M
10:45
 $-3:30$
 $\overline{7:15am}$

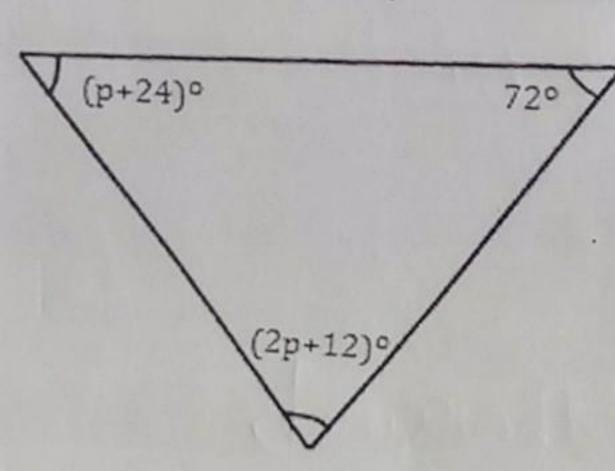
14. Convert 7 to a decimal.

15. Odama bought 120 shares from a village Sacco at an interest rate of 15% per annum. Each share costs shs.3000. Calculate the total amount Odama has after 2 years.

ト= Sh.3000×120 Sh.360,000 エ= PXRXT エ= Sh.360,000×15~×2 エ= Sh.108,000

1 Amount = p+1Sh. 360,000 $\frac{+8h.106,000}{5h.468,000}$

16. Find the value of p in the figure below.

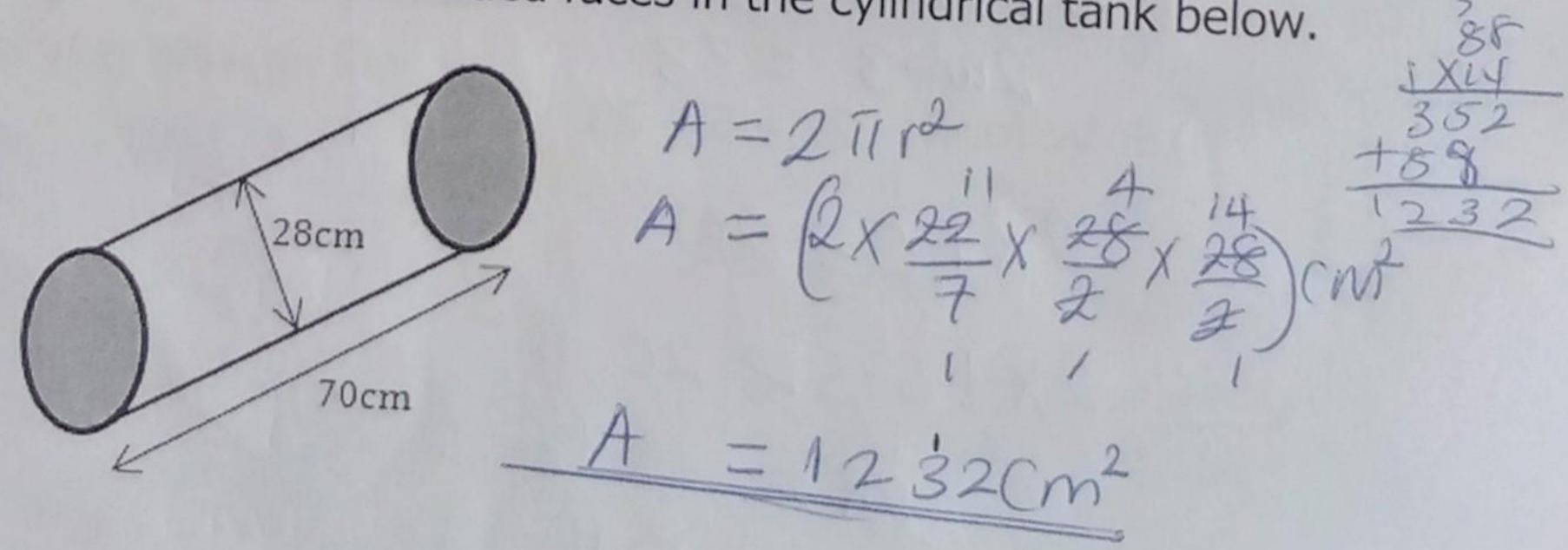


 $(P+24)^{\circ}+(2P+12)^{\circ}+72^{\circ}=180^{\circ}$ P+24+2p+12+72=180 P+2p+24+12+72=180 3p+108-108=180-168 $3p=72^{24}$

17. If a tourist came from Britain with \$850. How much money would he get in Ugandan currency if a pound sterling is sold at shs.5350 and bought at shs.5180?

1 pound - DSh. 5180 850 pounds - DSh. 5180×850 - DShs. 4,403,000

18. Find the total area of the shaded faces in the cylindrical tank below.



19. If
$$a = 2$$
, $b = 4$ and $c = -3$. Evaluate a (3b -c).

$$\frac{A(3xb)}{A(3xb-c)}$$
 $\frac{A(3xb-c)}{A(3xb-c)}$
 $\frac{A(12+3)}{A(12+3)}$
 $\frac{A(3xb-c)}{A(12+3)}$
 $\frac{A(12+3)}{A(12+3)}$
 $\frac{A(3xb-c)}{A(12+3)}$
 $\frac{A(12+3)}{A(12+3)}$
 $\frac{A(12+3)}{A(12+3)}$

20. Write 255220 in words.

Two hundred fifty-five thousand, two hundred twenty.

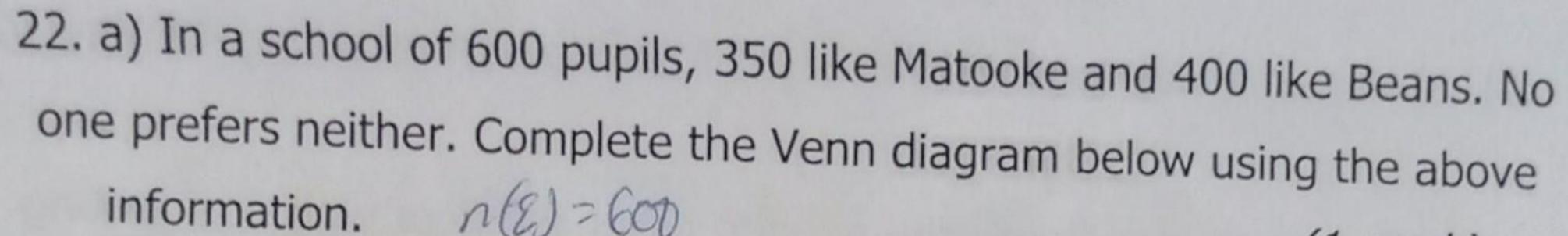
SECTION B: 60 MARKS

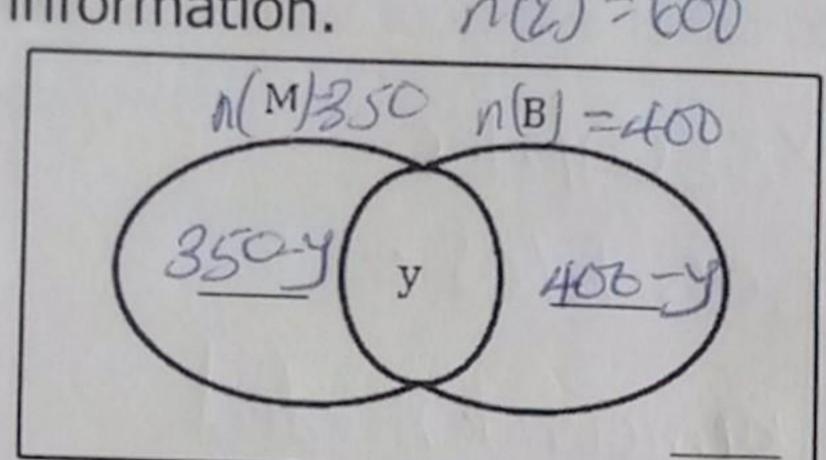
21. a) Angela is 3 years younger than Jovia. How old is Jovia if their total age is 33 years?

Let
$$w' rep$$
 Jovia's age $2w-3t3 = 33\frac{(2 marks)}{3}$
Fovia Argela [1.1.age] $2w-3t3 = 33\frac{(2 marks)}{3}$
 $w+w-3=33$
 $2w-3=33$
b) Solve for X: $2x+5>20$ (3 marks)

$$2w-3+3 = 33(2 \text{ marks})$$
 $\frac{1}{2}w = 36^{18}$
 $\frac{1}{2}w = 18 \text{ years}$.

(3 marks)





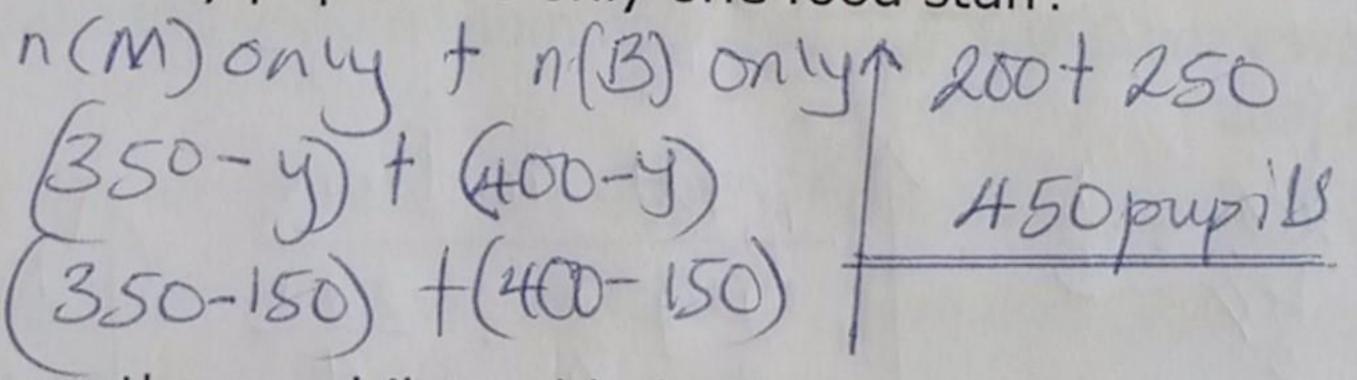
b) Find the value of y.

$$y = (350+400)-600$$
 $y = 750-600$
 $y = 150$

(2 marks)

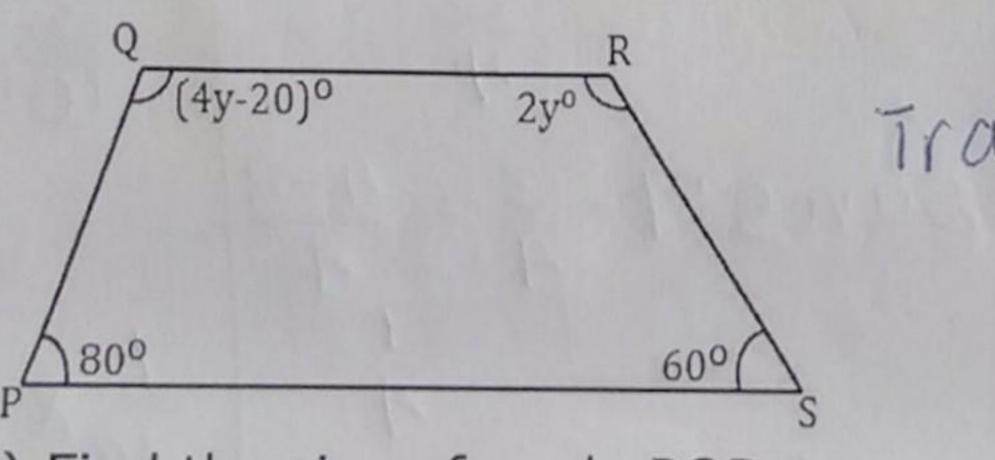
(1 mark)

c) How many pupils like only one food stuff?



(2 marks)

23. a) Name the quadrilateral below



(1 mark)

b) Find the size of angle PQR.

int
$$25 \text{ um} = 180^{\circ} (n-2)$$

 $180^{\circ} (4-2)$
 $180^{\circ} \times 2$
 360°
 $(4y-20)^{\circ} + 2y^{\circ} + 800 + 60^{\circ} = 360^{\circ}$
 $4y-20+2y+140=360$

(4 marks)

$$25um = 180^{\circ}(n-2)$$

$$180^{\circ}(4-2)$$

$$180^{\circ} \times 2$$

$$360^{\circ}$$

$$-20)^{\circ} + 2y^{\circ} + 80^{\circ} + 60^{\circ} = 360^{\circ}$$

$$4y - 20 + 2y + 140 = 360$$

$$4y + 2y + 140 - 20 = 360$$

$$2p = 4xy - 20)^{\circ}$$

$$4x40 - 20)^{\circ}$$

$$160^{\circ} = 28^{\circ} = 140^{\circ}$$

24. a) Kansime was to cover the floor of her house measuring 42m by 105m with square tiles 30cm each side.

How much money will she need to cover the floor with tiles costing

25. Ronald spent 20% on clothing, 30% on food and $\frac{1}{2}$ of the reminder on

fees. If he saves shs.270.000, how much more money does he spend on food than fees?

Ronald
$$\rightarrow 20 = \frac{1}{5}$$
 $10 \text{ total fraction}$
 $1 + 1 = \frac{2+1}{4}$

Clothing $\rightarrow 30 = \frac{3}{10}$
 $10 + \frac{3}{4} = \frac{3}{10}$

Saves: $1 - \frac{3}{4} = \frac{4-3}{4}$
 $10 - \frac{1}{4} = \frac{6-5}{20}$

Saves: $1 - \frac{3}{4} = \frac{4-3}{4}$
 $10 - \frac{1}{5} = \frac{6-5}{20}$
 $10 - \frac{1}{5} = \frac{5}{20}$

Saves: $1 - \frac{3}{4} = \frac{4-3}{4}$
 $10 - \frac{1}{5} = \frac{5-5}{20}$
 $10 - \frac{1}{5} = \frac{5-5}{20}$

Sh. 270,000 $-\frac{1}{5} = \frac{1}{4}$

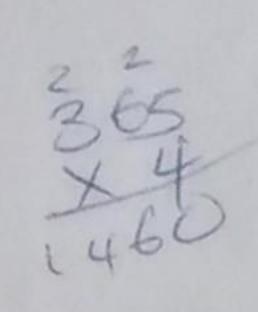
Sh. 270,000 $-\frac{1}{5} = \frac{1}{4}$

Sh. 270,000 $\times \frac{4}{5} = \frac{1}{4}$

Sh. 270,000 $\times \frac{4}{5} = \frac{1}{4}$

Fees $\rightarrow \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

8



26. The table below shows Fatuma's shopping bill.

Item	Qty	Amount	Unit cost	
Soap	4 bars	Sh.14,600	Sh 3,650	
Coffee	2 tins	Sh.9800	Sh 4,500	
Beans	3-kg	14,000	Sh. 14000	
Sugar	750gm	Sh. 2,400	Sh. 3,200	
Total Cost		Sh. 40,000		

Scap Coffee

8h.3,650X4 8h.4500X

8h.14,600 8h.9000

8h.14,600 8h.02,400

8h.14,600 8h.14,600

8h.14,600 8h.14,600

8h.14,000 414

8h.14,000 41

8h.14,000 41

8h.37,600 7509

(5 marks)

a) Complete the above table

b) If she paid sh 37,500 for all the items, calculate her percentage discount

3h. 37,500 Sh. 37,500 (2500 X100) % ADROP 6 A %

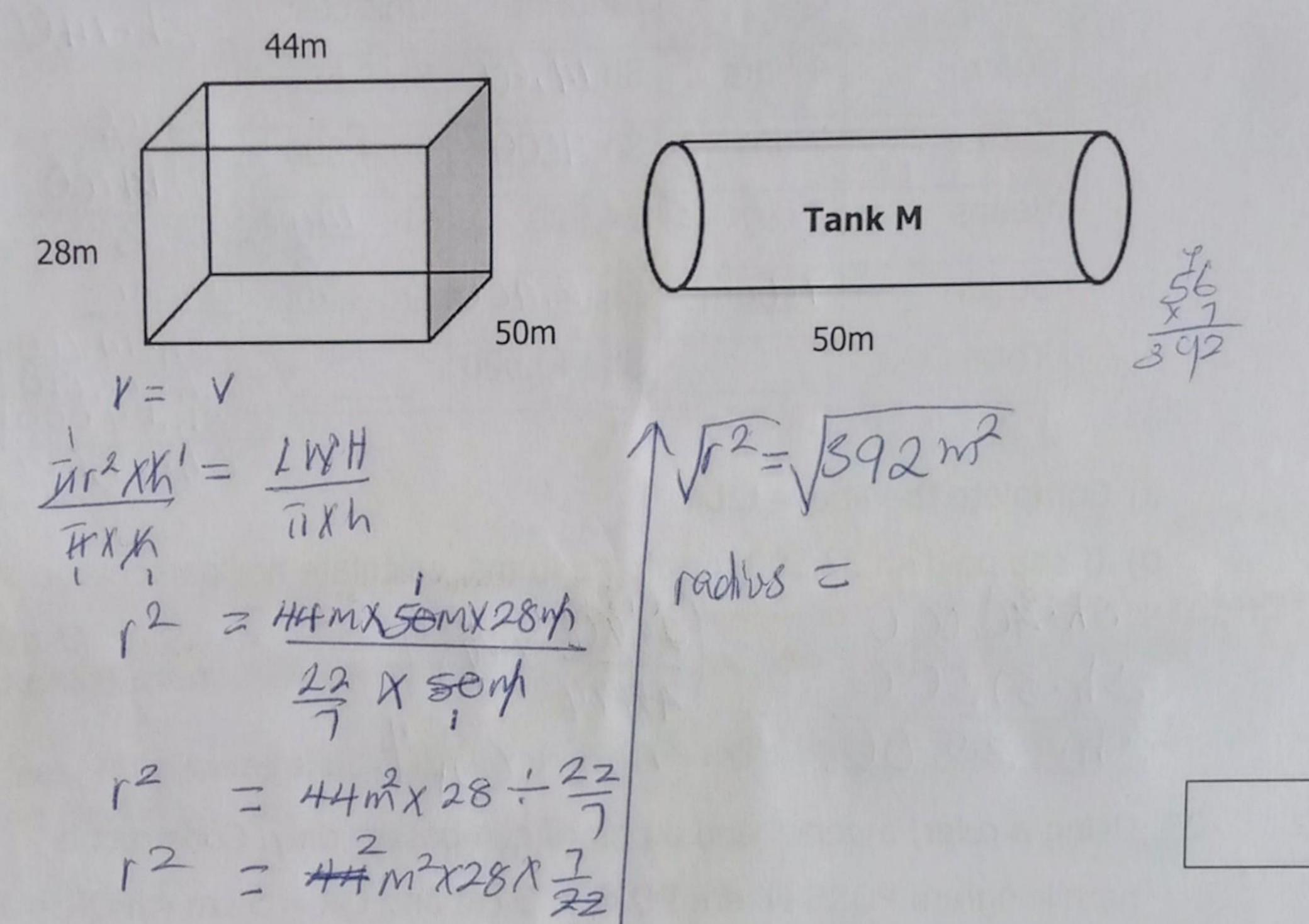
(1 mark)

27. Using a ruler, a pencil and a pair of compasses only. Construct a parallelogram PQRS where PQ = 7. 3 cm and QR = 5 cm < PQR = 120° and OPS = 60° (5 marks)

QPS = 60° she#tich

St 511 720 F 5cm

28. The tanks below hold the same amount of water when full. Find the diameter of tank M (4 marks)



29. a) 3 numbers are in the ratio of 4: 5: 6. If their LCM is 600, find their GCF

NOS:
$$\frac{658}{4}$$
, $\frac{656}{50}$, $\frac{666}{50}$ 2 | 150 | 120 | 100 | (4 marks) | 150, 120, 100 | 15 | 12 | 10 |

b) Find the range of the numbers.

(2 marks)

30. Copy and complete the table below given that y=3x - 5. (5 marks)

