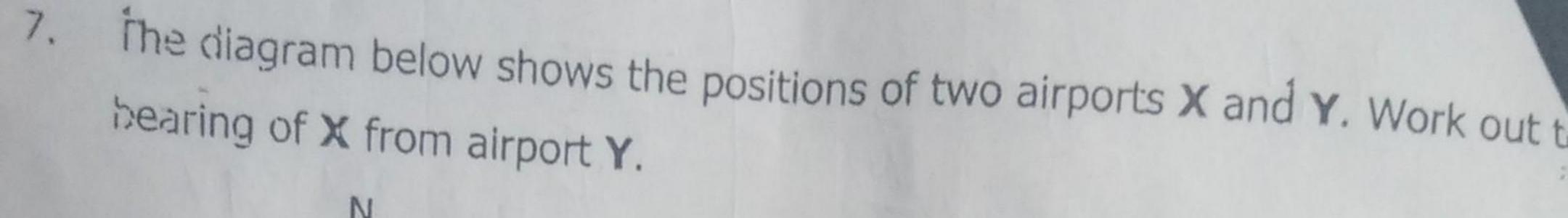
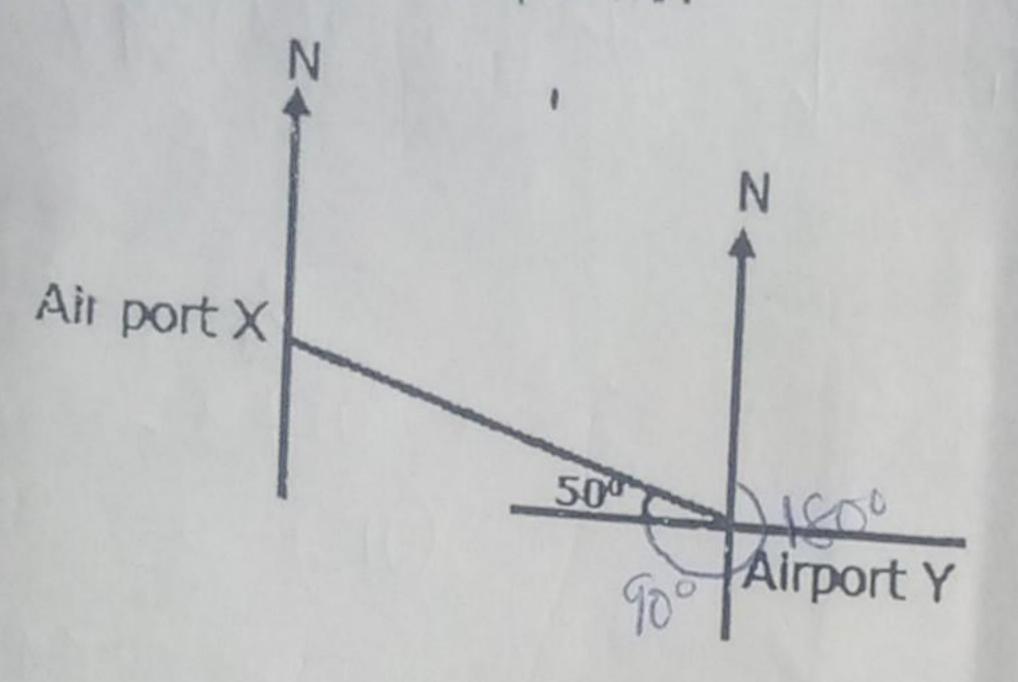
SIR APOLLO KAGGWA SCHOOLS- SINCE 1996 HUB TEST 2 TERM III 2024 P.7 MATHEMATICS

NARME: Stream_
SCHOOL:
SECTION A (40 MARKS)
1. Work out: 43 x 2
43
XXX
2. Describe the unshaded part in the Venn diagram.
(AVE)
AUB
3. Write 215 in Roman Numerals.
200 + 10 + 5 CC X V
CCXX
CCXV
4. Find the next number in the sequence.
1,2,6,15,31,56
+ 1 + 4 + 4 + 4 + 4 + 6 + 25 (\$9. nos) 56
5. Simplify: -810
-8-(-10)
-8+10
+,
6. There are 40 pupils in a class. If 25 pupils are present today, what percentag
of the whole class is absent?
Absentees: 36 1 (15 x 700) (0
-25 HØ
15 卷70=375%
1 7 (0 0 1210





Cakes cost sh. 2500, what is the cost of 12 similar cakes?

A baby slept at 7:15am for 2 1/2 hrs. At what time did the baby wake up?

$$E \cdot T = S \cdot T + D$$

H

H

M

10 9: 45 am

10 9: 45 am

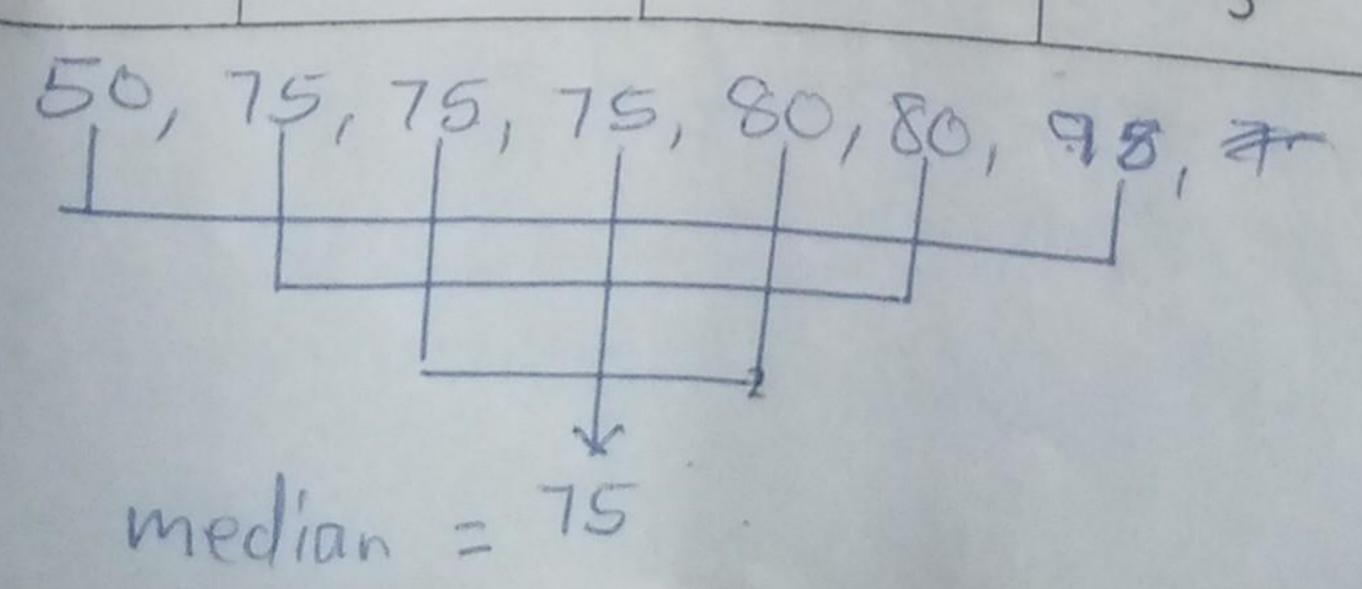
10 9: 45 am

10. The bag weighs 2500 grams. Express this mass in kg.

11. Solve: 7w - 7 = 25 kg

12. Study the table below and find the median.

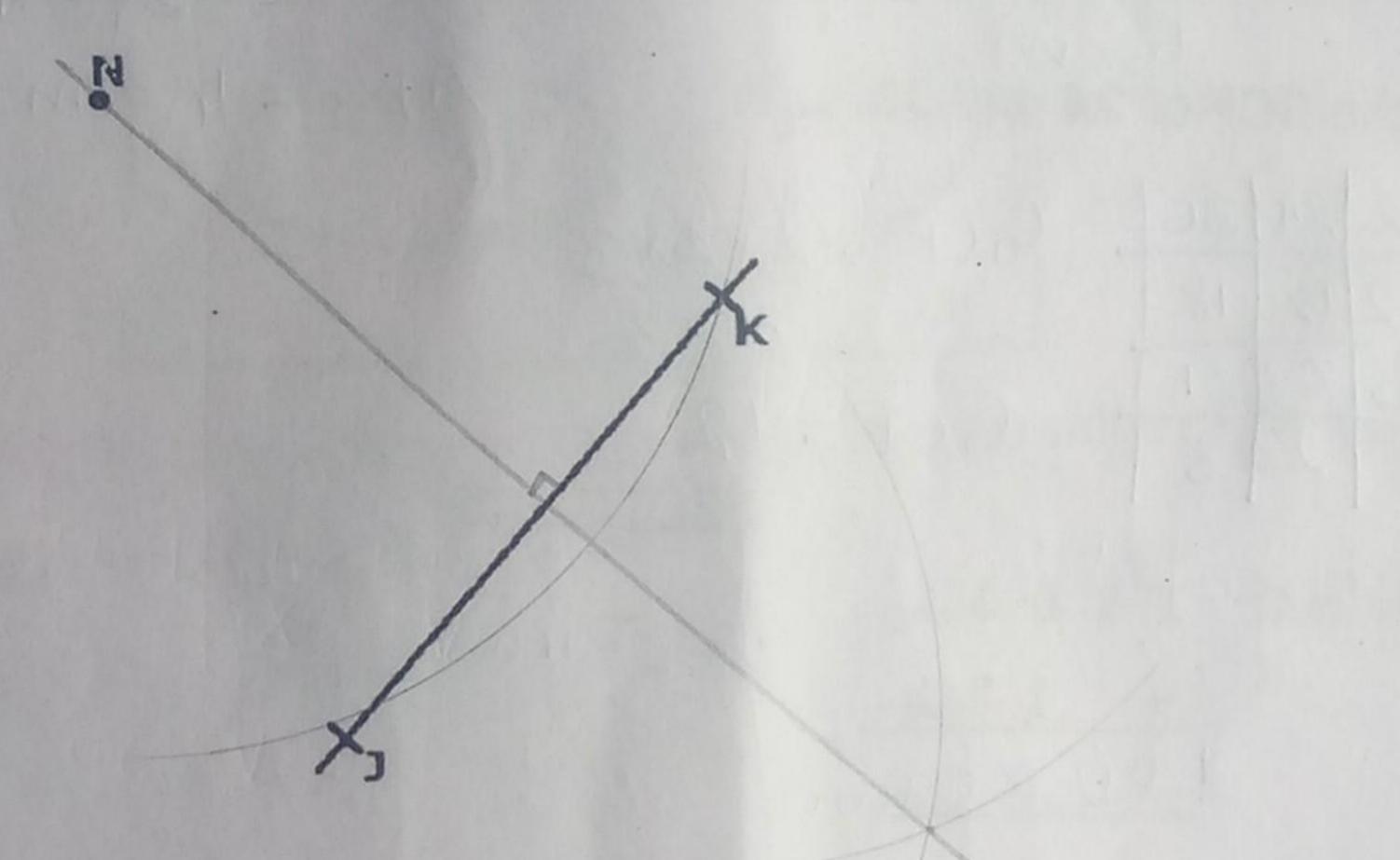
Marks	50	80	
No. of pupils	1	2	98



Write
$$67,000$$
 in standard form.
 $67,000 \div 10 = 6700 \land 67 \div 10 = 6.7$
 $6700 \div 10 = 670$
 $670 \div 10 = 67$
 $670 \div 10 = 67$

Mukisa deposited shs. 60,000 in bank which gives a simple interest of 30% per month. Find the simple interest after 10 months.

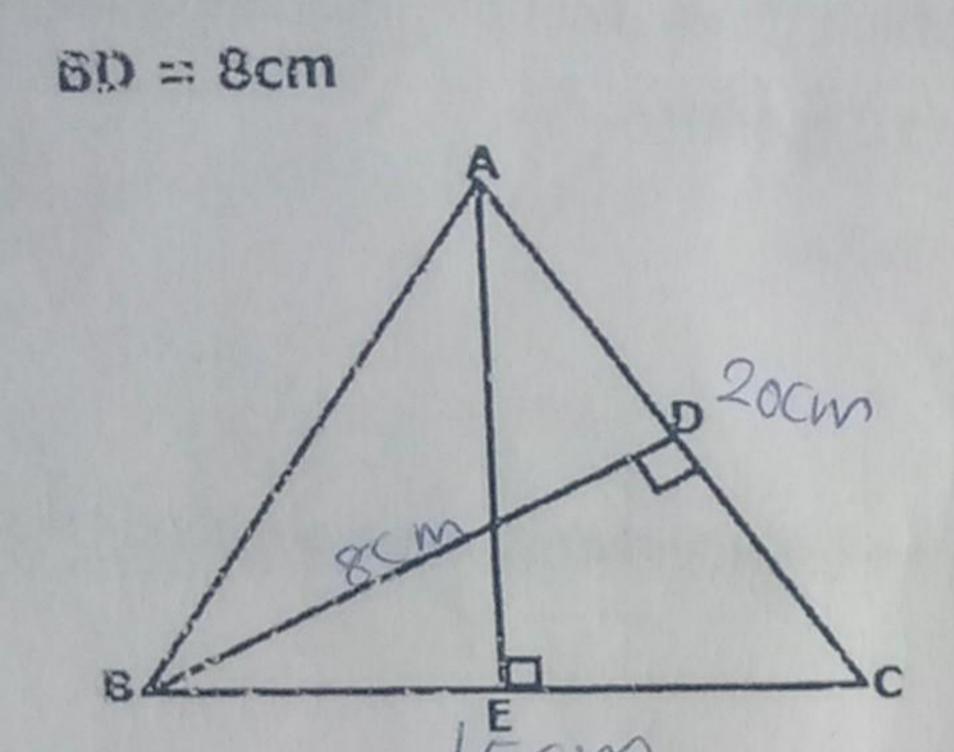
I = Sh. 180,000 15. Using a ruler a pencil and a pair of compasses only, construct a perpendicular line from N to line segment JK.



16. Find the range of 80, 42, 63 and 90.

Pius covered a distance of 60km in 45 minutes. Calculate his speed in km/hr.

19. Find the length of line AE in the figure below if AC = 20cm, BC = 15cm and



20. Find the GCF of 24 and 36.

Area = Area
$$\frac{1}{2} \times 15 \times AE = \frac{1}{2} \times 20 \times 8$$

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Area = $\frac{1}{2} \times 15 \times AE = \frac{1}{2} \times 15 \times AE = \frac{1}{2}$

$$\frac{2|24|36|}{2|12|18} GCF = (2x2)x3$$

$$\frac{3|6|9}{2|3|} GCF = 12$$

SECTION B

(2marks)

b) Find the value of P in

$$2p1_{five} = 123_{seven}$$

$$(2x5) + (Px5) + (1x5) = (1x7) + (2x7) + (3x7)$$

$$(2x5) + (Px5) + (1x5) = (1x7) + (2x7) + (3x7)$$

$$2x5x5 + Px5 + 1x1 = 1x7x7 + 2x7 + 3x1 + 51 + 5P = 66$$

$$2x5x5 + Px5 + 1x1 = 49 + 14 + 3$$

$$50 + 5P + 1$$

$$50 + 5P + 1$$

$$50 + 15P = 66$$

$$50 + 115P = 66$$

22a) Find the number which has been expanded to give;

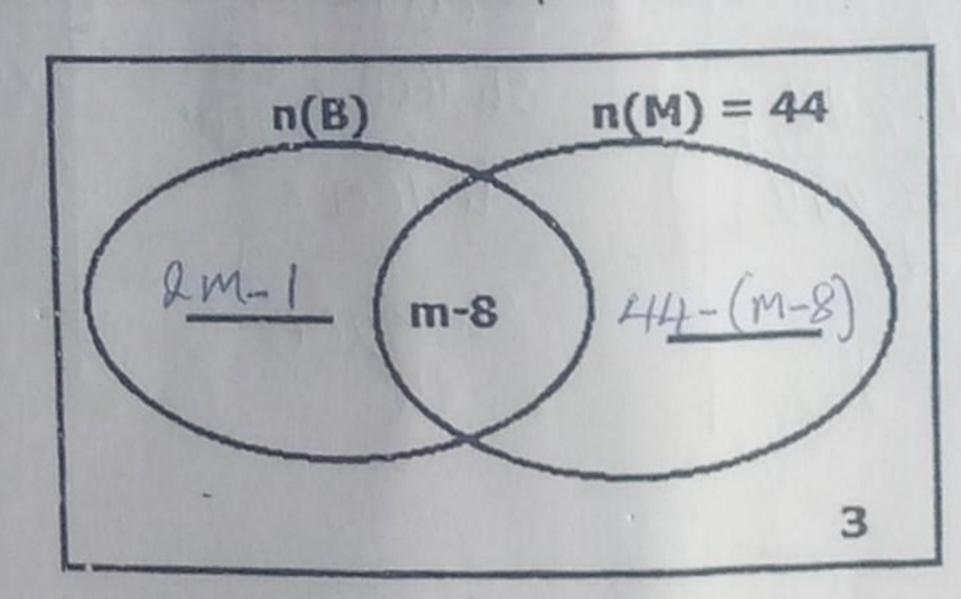
 $(9 \times 10^{4}) + (3 \times 10^{2}) + (2 \times 10^{0})$ $(9 \times 10^{4}) + (3 \times 10^{2}) + (2 \times 10^{0})$ $(9 \times 10^{4}) + (3 \times 10^{2}) + (2 \times 10^{0})$ $(9 \times 10^{4}) + (3 \times 10^{2}) + (2 \times 10^{0})$ $(9 \times 10^{4}) + (3 \times 10^{2}) + (2 \times 10^{0})$ $(9 \times 10^{4}) + (3 \times 10^{2}) + (2 \times 10^{0})$ $(9 \times 10^{4}) + (3 \times 10^{2}) + (2 \times 10^{0})$ $(9 \times 10^{4}) + (3 \times 10^{2}) + (2 \times 10^{0})$ $(9 \times 10^{4}) + (3 \times 10^{2}) + (2 \times 10^{0})$ $(9 \times 10^{4}) + (3 \times 10^{2}) + (2 \times 10^{0})$ $(9 \times 10^{4}) + (3 \times 10^{2}) + (3 \times 10^{2}) + (2 \times 10^{0})$ $(9 \times 10^{4}) + (3 \times 10^{2}) + (3 \times 10^{2}) + (2 \times 10^{0})$ $(9 \times 10^{4}) + (3 \times 10^{2}) + (3 \times 10^{2}) + (2 \times 10^{0})$ $(9 \times 10^{4}) + (3 \times 10^{2}) + (3 \times 10^{2}) + (2 \times 10^{0})$ $(9 \times 10^{4}) + (3 \times 10^{2}) + (3 \times$

9 = (3 marks) |5| + 5| = 66 |5| + 5| + 5| = 66 - 5| |5| + 5| + 5| = 45 |5| = 45|5| = 3

90,000 4 300 4 90,300

Use distributive property to work out: $99 \div 4 - 19 \div 4$ (2marks)

- 23. In a farmers' club (2m 1) grow beans (B) but not maize (M), 44 grow maize, (m-8) grow both beans and maize while 3 grow other crops.
- a) Use the information above to complete the Venn diagram below. (2marks)



b) If 70 farmers grow only one type of crop, find the value of m. (2marks)

$$2m-1+44-(m-8)=70$$
 $2m-1+44-m+8=70$
 $2m-m+44+8-1=70$
 $m+52-1=70$
 $m+51-51=70-51$

c) Find the probability of picking a farmer at random who grows maize. (2marks)

$$n(8) = 704 \text{ M-8+m3} \text{ P} = \frac{n(8.0)}{n(7.0)}$$
 $70+119-8+3$
 $P = 44$
 84
 $n(7.0) = 84$

The time table below shows the flights to and from different airports. Study it carefully and use it to answer the questions that follow.

Flight	From	To	Departure	Arrival time
QU 330	Entebbe	Nairobi	7:15am	8:00am
QU 310	Adis Ababa	Entebbe	8:30am	11:00am
ET 965	Arusha	Kigali	11:45am	1:45pm
QA 592	Entebbe	Dubai	4:30pm	9:15pm

What is the departure time of plane from Entebbe to Nairobi in 24 hour clock? (1mark)

How long is the flight from Arusha to Kigali?

(2marks)

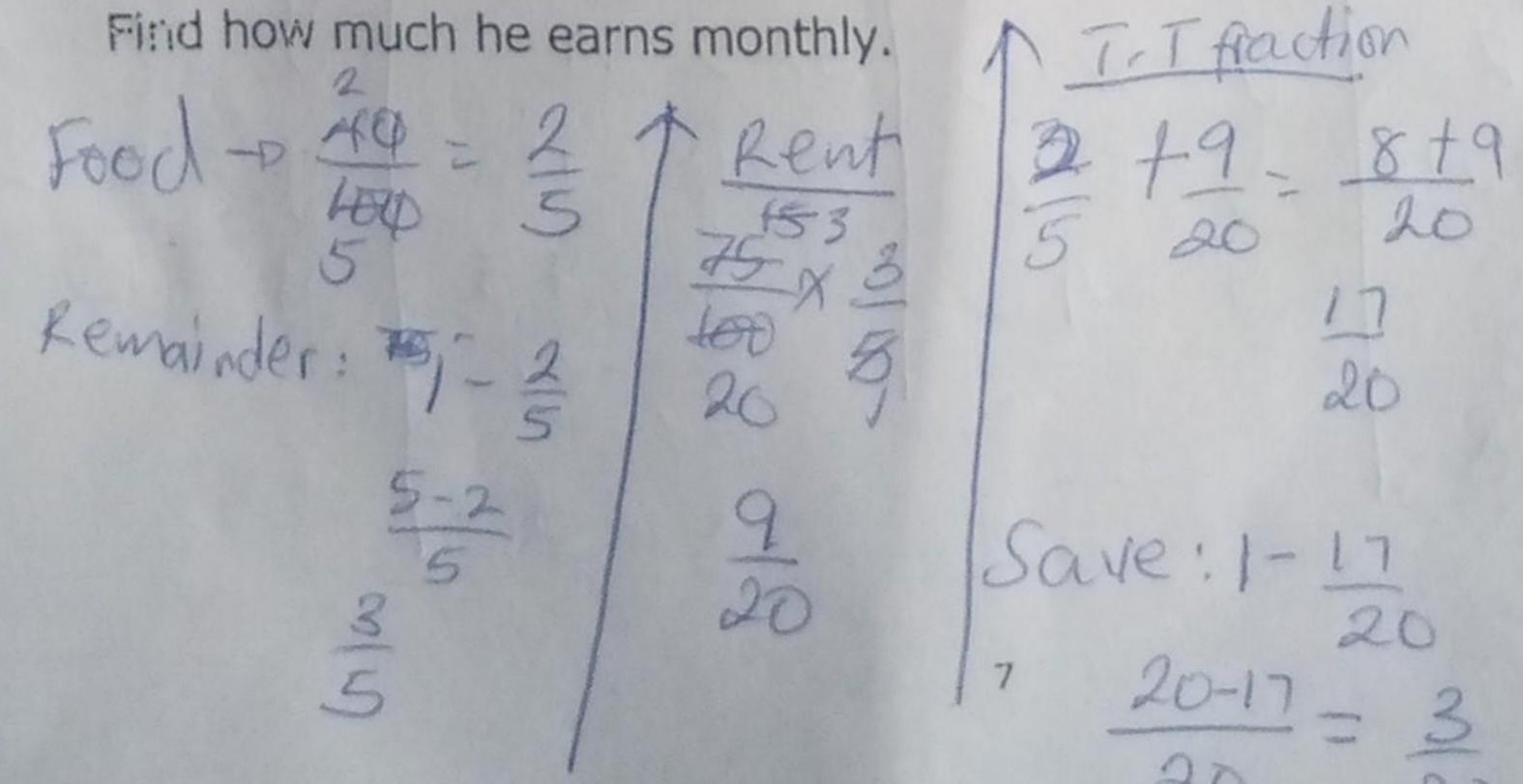
$$\frac{11}{1200} = \frac{11}{1200} =$$

An aeroplane from Entebbe to Dubai flies at 1360km/h. How far is Dubai from

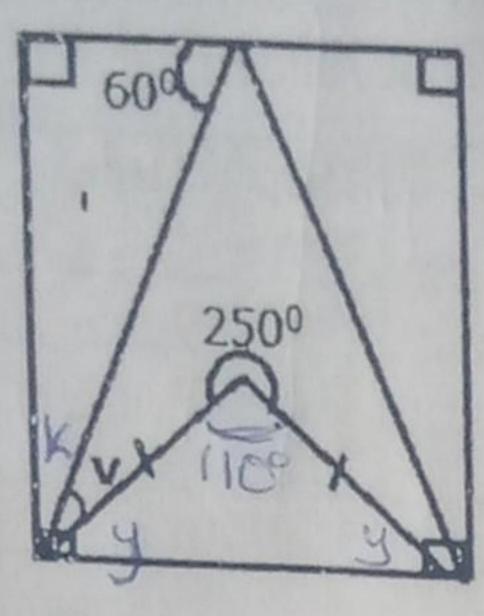
Entebbe?

$$7ime = 9 15$$
 $-4 30$
 $1 = 4 \frac{3}{4}h$
 $1 = 4 \frac{3}{4$

27. Muwembe spends 40% of his salary on food. 75% of the remainder on rent and saves the rest amounting to sh. 180,000.



(5 marks) Total Salar Sh.180,000 = 3 28. Study the diagram below and use it to answer the question that follows.



a) Find the value of v.

$$3 + 9 + 10^{\circ} = 180^{\circ}$$

$$2y + 110^{\circ} = 180^{\circ}$$

$$2y + 110^{\circ}$$

$$3y + 10^{\circ}$$

$$7 \text{ K} + 90^{\circ} + 60^{\circ} = 180^{\circ}$$
 $1 \text{ K} + 150^{\circ} = 180^{\circ}$
 $1 \text{ K} + 150^{\circ} - 150^{\circ} = 180^{\circ} - 150^{\circ}$
 $1 \text{ K} + 150^{\circ} - 150^{\circ} = 180^{\circ} - 150^{\circ}$
 $1 \text{ K} + 150^{\circ} - 150^{\circ} = 180^{\circ} - 150^{\circ}$

$$K + 90^{\circ}+60^{\circ} = 180^{\circ}$$
 $V + 85^{\circ} = 90^{\circ}$
 $K + 150^{\circ} = 180^{\circ} + 50^{\circ}$ $V + 65^{\circ} - 65^{\circ} = 90^{\circ} - 65^{\circ}$
 $K = 30^{\circ}$ $V = 25^{\circ}$
 $K + V + V = 90^{\circ}$
 $V + 30^{\circ} + 35^{\circ} = 90^{\circ}$

Ratio: 1:5

Total ratto: 115=6

29. Given the equation of the line y = 3x - 2.

Complete the table below.

X	0	_ 2	3	5
Y	-2	4	7	13

(4marks)

(2marks)

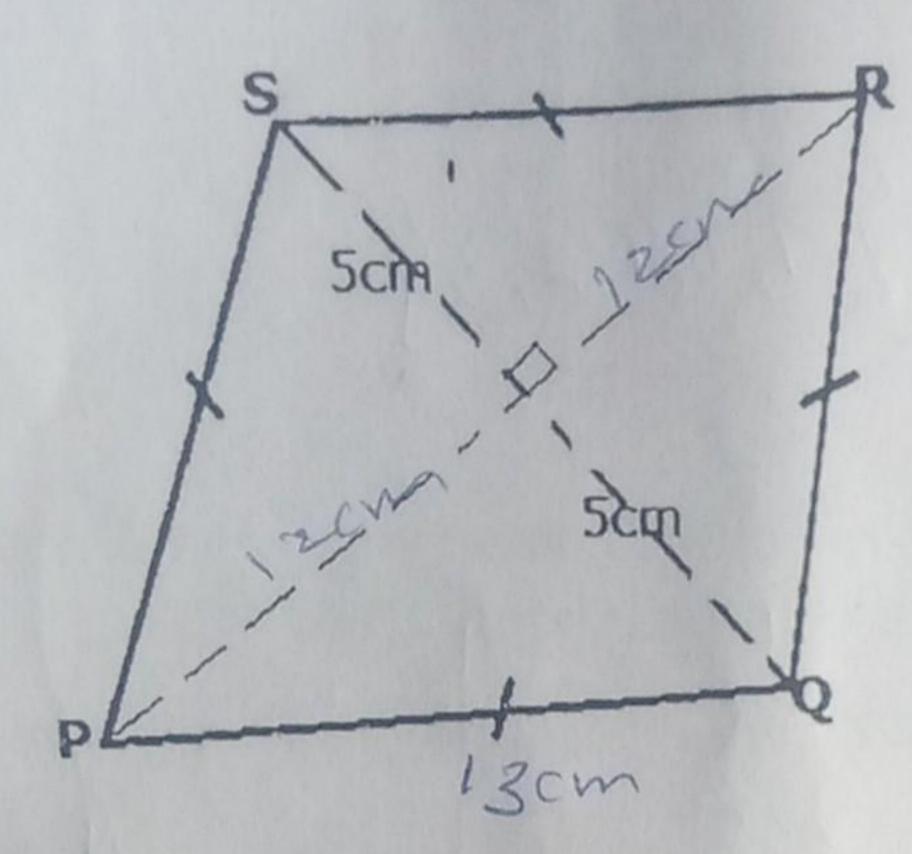
$$3x-2=y y=3$$

$$3x-2+2=-2 y=3$$

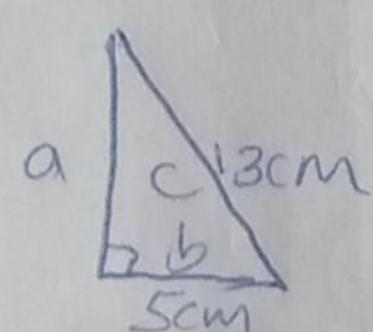
$$3x-2+2=-2+2 y=3$$

$$3x-2+2=-3 y=3$$

$$3x-2+3=-3 y=3$$



a) Find the length of diagonal PR.



b) Find its area.

$$a^2 + 25 = 169$$

(2marks)

(4marks)

$$A = \frac{1}{2} \times d_1 \times d_2$$

A = 120cm² 31. Solve:

a)
$$\frac{1}{3}(6y-12)+\frac{3}{4}(8y+20)=27$$

Find the solution set for (2marks) y= g-1,0,1,2,34 -1 = 4 = 4 Town B is south of Town C. The distance between Towns B and C is 120km. Town D is 80km from Town B on a bearing of 235° Using a scale of 1cm: 20km, draw an accurate diagram to show the position of the three towns. N Sketch.

b) Find the bearing of Town D from Town C.

(1mark)

+20° 200°

THE END