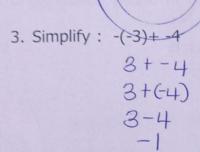
## TR FRANCIS (0764782284) SECTION A: 40 MARKS Answer all the questions in this section. Questions 1 to 20 carry turns

. Work out 24:4 using repeated subtraction.

$$24-4=20$$
  $12-4=8$   $24-4=6$   $20-4=16$   $8-4=4$   $16-4=12$   $4-4=0$ 

2. Draw a Venn diagram to show that girls (G) are females (F)



4. Write the number whose scientific notation is  $3 \times 10^{-3}$ ?

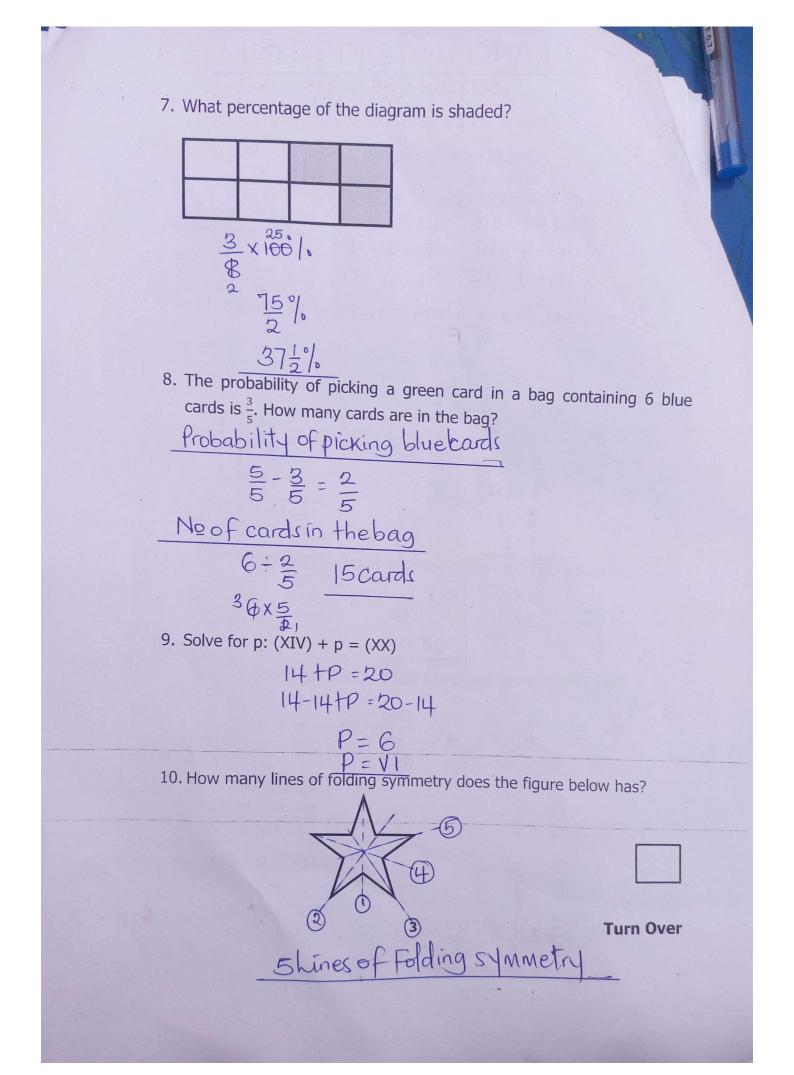
$$3 \times 10^{-3}$$
  $3 \times \bot$   $1000$   $0.003$ 

5. Find the square of the next number in the sequence

6. Work out 
$$\frac{2}{5} \div \frac{3}{4}$$

$$2 \div 3$$

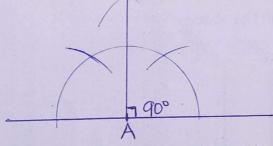
$$\frac{2}{5} \times \frac{4}{3} = \frac{8}{15}$$



11. Find the value of 
$$t$$
 and  $q$ 

2 24 36
2 12  $t$ 
2 6 9
2 2 26 9
2 1 2  $t$ 
3 1 3  $t$ 
4 2 1 8

12. Construct angle 90° at point A using a pair of compasses, ruler and pencil.

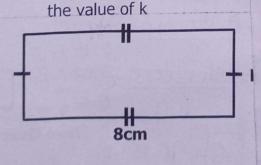


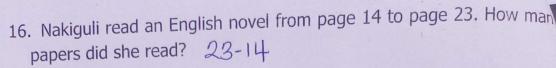
13. Express 1 week on a ratio of a fortnight

$$\frac{1}{5n-6r+2r-n}$$

14. Simplify 5p - 6r + 2r - p5P-P-Grt2r

15. A rat moved round the figure below twice and covered 48cm. Find

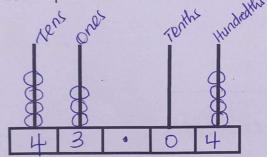




17. The position of Katongole from either side of the line is K. If there are 9 pupils on a line. Find Katongole's position.

$$(KX2)-1=9$$
 $2K-1=9$ 
 $2K-1H=9+1$ 
 $2K=10$ 
 $2K=10$ 
 $2K=10$ 

18. Represent 43.04 on the abacus



19. Show a quarter to 9 on the clock face below



20. The cost of 3 text books is sh. 135,000. Find the cost of 2 similar text books at the same rate

3 text books 
$$\rightarrow$$
 sh. 135000

1 text books  $\rightarrow$  sh. 135000

2 text books  $\rightarrow$  sh. 135000  $\times$  2

3 45 5000  $\times$  2

5 Sh. 135000  $\times$  2

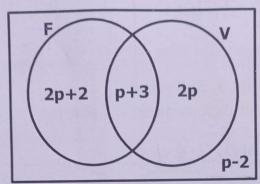
Turn Over

## **SECTION B: 60 MARKS**

Answer all the questions in this section.

Marks for each question are indicated in brackets.

21. In a sports club, members play football and volley ball as shown in the Venn diagram below. Use the Venn diagram to answer questions that follow.



a) If there are 10 more members who play volley ball than football

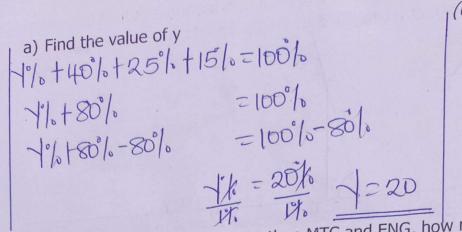
only, solve for 
$$P$$
  
 $(2P+P+3) - (2P+2) = 10$   
 $3P+3-2P-2 = 10$   
 $2P-2P+3-2 = 10$ 

b) Find the number of members who play football altogether.

22. Namatovu Zam bought the following items from a market.

2kg of rice at shs 3200 per kg 1 ½ kg of meat at shs 8000 per kg A sachet of cooking oil at shs 1,750 500g of salt at shs 1,400 per kg

Rice Sh3200 X 2 Sh6400	a) How much money did she spend altoget  Meat Sh. 8000 x 3 Sh. 1400 x 500 Sh. 1200 Sh. 175 Cooking eil Sh. 1,750 Sh. 175 Sh. 2085	Dense Do DO DO			
	23. Given that digits <b>0</b> , <b>3</b> , <b>5</b> and <b>4</b> .				
	a) Form two four digit members divisible by i) 4 3540,3504 ii) <b>5</b>	(02 marks)			
	ii) <b>5</b> 4580,4305	(02 marks)			
	b) Find the difference between the largest a numerals that can be got from the digit a Largest = 5430   5430   5430-3045   2385	and smallest 4 digit above. (02 marks)			
	24. Tr. Keith drove from Bulo to Mpigi for 3 ho 60km per hour. He left Mpigi at 11:00am ar the same road at a steady speed of 90km/h Keith reach Bulo?  Distance from Bulo to Mpigi  D = SXT	nd drove back to Buli on or. At what time did Tr.			
	D=GOKM X3bx	T = 180KM			
	D=180KM	F=2hrs  Turn Over  ET=ST + Duration			
		11:00am 1300 +2:00 hms 1200			
		13:00 hs 1:00 pm			



b) If SST got 2 more distinctions than MTC and ENG, how many (03 marks)

candidates sat for PLE in that school ion 2023

$$|40/.-(35/.)| 2-5$$

$$|50/... 2 \times 100$$

$$|51/... 51/... 100$$

$$|51/... 100$$

$$|51/... 100$$

$$|51/... 100$$

$$|51/... 100$$

$$|51/... 100$$

$$|51/... 100$$

28. The table below shows prime factors of  $\mathbf{F_{54}}$  and  $\mathbf{F_{z}}$  whose GCF is 18. Use it to answer the questions that follow

Use it to answer the questions are				
F <sub>54</sub> only	F <sub>z</sub> only	F <sub>54</sub> n F <sub>Z</sub>	GCF	
k	22	3 <sub>1</sub> 2 <sub>1</sub> t	18	

Find the value of

(02 marks)

$$3 \times 2 \times t = 18$$

$$6 t = 18$$

$$6 z t = 32$$

(01 mark)

Turn Over

c) k 3x2x3xK =54

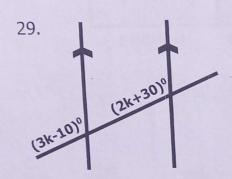
d) Find the LCM of F54 and Fz

LCM= 3X2X3X2X3

LCM= 108

(02 marks)

(02 marks)



(a) Find the value of k

(02 marks)

(3K-10)° = (2K+30)° (Corresponding angle)

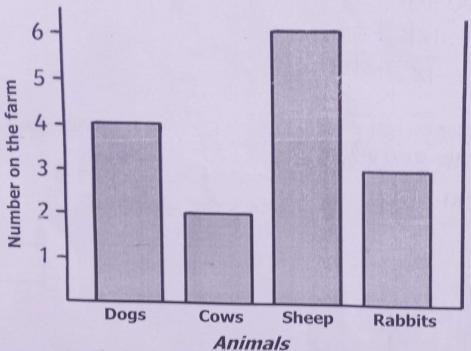
3K°-10° = 2K° +30° | 3K°-2K° = 2K°-2K°+40°

 $3K^{\circ}-10^{\circ}H0^{\circ}=2K^{\circ}+30^{\circ}+10^{\circ}$   $3K^{\circ}=2K^{\circ}+40^{\circ}$ (b) Work out the complement of  $(t+40)^{\circ}$ 

(02 marks)

90°-(t+40)°

30. The graph below shows some of the animals on Emma's farm. Study it carefully and answers the questions about it.



a) How many pets are kept on Emma's farm? 4+3

(02 marks)

1 Pets

b) If eight cows were not represented on the graph, how may cows are on the farm?

2+8

(02 marks)

10cows

c) How many animals were represented altogether?

(01 mark)

4+2 cons+ Cosheep + 3 rabbits

15 animals

**Turn Over** 

31. (a) Work out 
$$\frac{0.23 \times 0.08}{0.4 \times 1.4}$$
  $\frac{28}{100} \times \frac{28}{100} \times \frac{28}{100}$ 

(b) 
$$1\frac{2}{5} \times 1\frac{1}{2} \div 3\frac{1}{2}$$

$$\frac{7}{5} \times (\frac{3}{2} \div \frac{7}{2})$$

$$\frac{7}{5} \times (\frac{3}{2} \div \frac{7}{2})$$

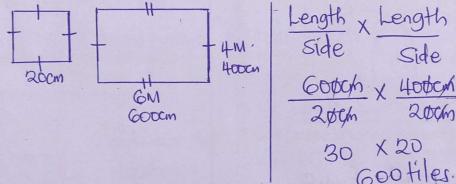
$$\frac{7}{5} \times (\frac{3}{2} \times \frac{2}{7})$$

$$\frac{3}{5} \times (\frac{3}{2} \times \frac{2}{7})$$

$$\frac{3}{5} \times (\frac{3}{2} \times \frac{2}{7})$$

(03 marks)

- 32. Square tiles of sides 20cm each were laid on the floor of a room measuring 6m by 4m.
  - a) Find the number of tiles needed to cover the floor. (03 marks)



b) If a box containing 25 tiles costs shs 30,000. Find the total cost for

tiling the whole floor Sh 3000 24 + 12000 Sh-72,000 (02 marks)

**END** 

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