

MOTHELCARE PREPARATORY SCHOOLS

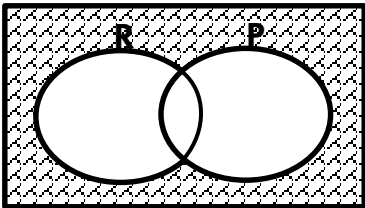
ASSESSMENT ONE - 2021 PRIMARY SIX MATHEMATICS

Name: _____ Stream: _____

Branch: _____

SECTION A

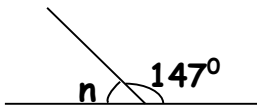
1	Workout: $278 - 52$	6	Using a ruler, a pencil and a protractor only, draw an angle of 120° .
2	Find the place value of 7 in 374.		
3	Convert 6000cm to metres.	7	Express 0.666..... as a simplified common fraction.
4	Find the next number in the sequence: 2, 4, 7, 12, 19, _____	8	How many proper subsets are in a set with 3 elements?
5	Simplify: $7k + 3m - 2k - 5m$		

9	<p>Draw tally marks to represent 27.</p>	13	<p>Dembe drove his car to cover a distance of 240km in 4 hours. Calculate his speed in km/hr.</p>
10	<p>Change 2:24 p.m. to a 24 hour clock system.</p>	14	<p>Round off 36.27 to the nearest tenths.</p>
11	<p>Shira bought a bag at sh.40,000 and later sold it at a profit of sh. 12,000. Calculate her selling price.</p>	15	<p>Simplify: $3^4 \div 3^2$</p>
12	<p>Describe the shaded region in the venn diagram below.</p> 	16	<p>Solve: $2k + 3 = 11$</p>

17 Underline all the numbers which are divisible by 5 without dividing them.

306 , 740 , 367 , 201 , 475

18 In the figure below, find the value of n.



19 Simplify: $\frac{1}{3} + \frac{2}{5}$

20 Workout: $3 - 5 = \underline{\hspace{2cm}}$ (mod 7)

SECTION B (60 Marks)

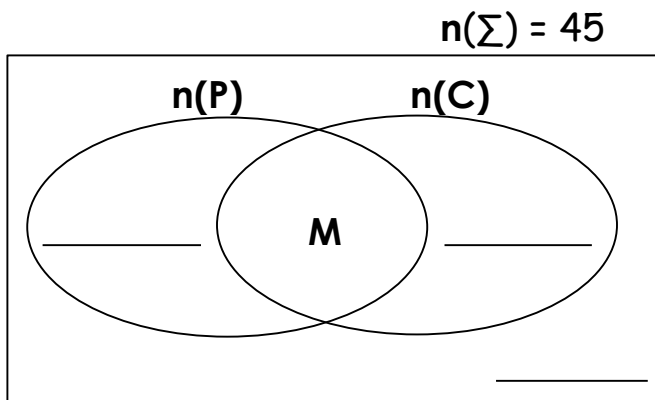
21 a) Workout: $\frac{0.24 \times 0.8}{0.4 \times 0.6}$

(3mrks)

b) Simplify: $\frac{1}{4} - \frac{1}{3} + \frac{1}{2}$

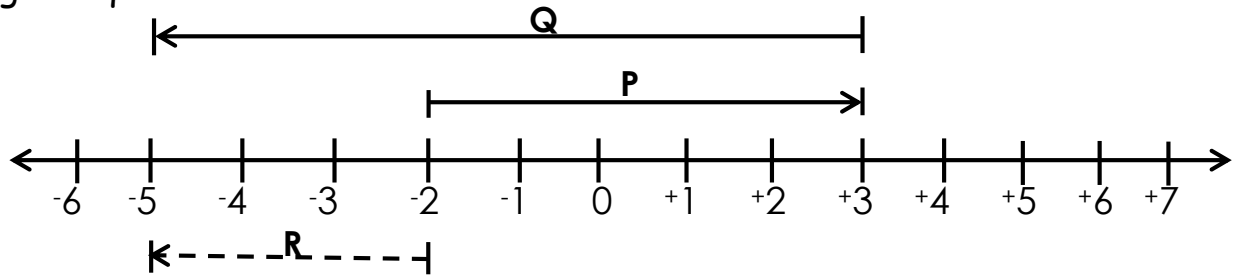
(2mrks)

- 22 In a group of 45 farmers, 25 farmers rear poultry (P), 22 farmers grow crops (C), 5 do not do any of the two activities while M farmers do both activities.
a) Represent the above information on the venn diagram below. (3mrks)



- b) Find the value of m . (2mrks)
- c) How many farmers do only one activity? (1mrk)
- 23 The sum of three consecutive counting numbers is 48. List down the three numbers. (4mrks)

- 24 The diagram below shows a Mathematical sentence. Use it to answer the given questions.



- a) Identify the integer represented by each of the rays. **(3mrks)**

(i) R = _____ (ii) P = _____ (iii) Q = _____

- b) Write the Mathematical sentence shown on the number line. **(2mrks)**

- 25 Faith had a fifty thousand shilling note and bought the following items.

2 kg of sugar at sh. 3500 per kg.

$1\frac{1}{2}$ kg of meat at sh. 8000 per kg.

3 packets of biscuits for sh. 6000.

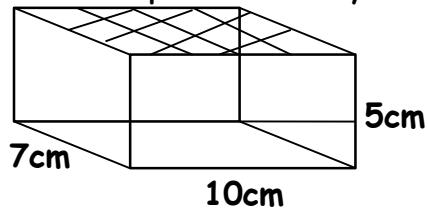
2 litres of cooking oil at sh. 5000 per litre.

- a) Find her total expenditure. **(4mrks)**

b) What was Faith's change?

(2mrks)

26 Below is a prism. Study it and answer the given questions.



a) Find the area of the shaded face.

(2mrks)

b) Find the sum of all its edges.

(2mrks)

c) Calculate the volume of the prism.

(2mrks)

27 Given the number 4753; use it to answer the given questions.

a) Find the place value of 7 in the number.

(1mrk)

b) Write the number in words.

(1mrk)

c) Find the sum of the value of 4 and the place value of 5 in the number above.

(2mrks)

28 In a mathematics test given to a class, the marks scored, frequency and total marks are shown in the table below.

Mark scored	Frequency	Total marks
4	4	16
_____	9	45
6	_____	84
7	8	_____
8	5	40

a) Complete the above table.

(3mrks)

b) How many pupils did the tests?

(1mrk)

29 a) With the help of a ruler, pencil and a pair of compasses only.
Construct a quadrilateral ABCD in which $AB=8\text{cm}$ and $AD = 6\text{cm}$.

(4mrks)

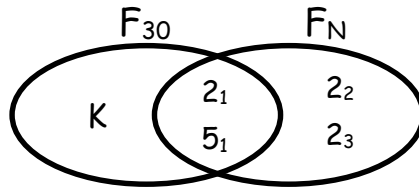
b) Measure the length of diagonal BD.

(1mrk)

30 Ken, Lydia and Martha shared sh. 200,000 in the ratio $2 : 5 : 3$ respectively. How much money did each of them get?

(4mrks)

31 Study the venn diagram below and use it to answer the given questions.



a) Find the value of K . (1mrk)

b) Work out the value of N . (1mrk)

c) What is the *GCF* of N and 30 ? (2mrks)

d) Calculate the *LCM* of N and 30 . (2mrks)

32 a) Given that $a = 2$ and $b = -3$, find the value of $a - b$. (2mrks)

b) Solve for h in: $3h - 4 = 2h + 5$ (3mrks)

-End-