MOTHERCARE PREPARATORY SCHOOLS

ASSESSMENT ONE - 2021 PRIMARY SIX MATHEMATICS

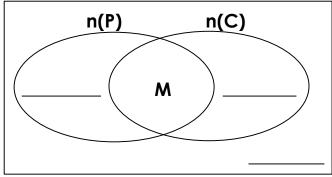
ľ	Name:				
E	Branch:				
		SECTI	ON A	\	
	1	Workout: 278 - 52	6	Using a ruler, a pencil and a protractor only, draw an angle of 120°.	
	2	Find the place value of 7 in 374.			
	3	Convert 6000cm to metres.	7	Express 0.666 as a simplified common fraction.	
	4	Find the next number in the sequence: 2, 4,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

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

17	Underline all the numbers which are divisible by 5 without dividing them. 306 , 740 , 367 , 201 , 475	19	Simplify: $\frac{1}{3} + \frac{2}{5}$		
18	In the figure below, find the value of n. 147°	20	Workout: 3 - 5 = (mod 7)		
	CECTION		B (60 Marks)		
21	a) Workout: 0.24 × 0.8 0.4 × 0.6	<i>(</i>	(3mrks)		
	b) Simplify: $\frac{1}{4} - \frac{1}{3} + \frac{1}{2}$		(2mrks)		

- 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)

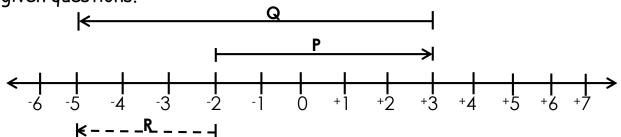
$$n(\Sigma) = 45$$



b) Find the value of m. (2mrks)

- c) How many farmers do only one activity? (1mrk)
- 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.

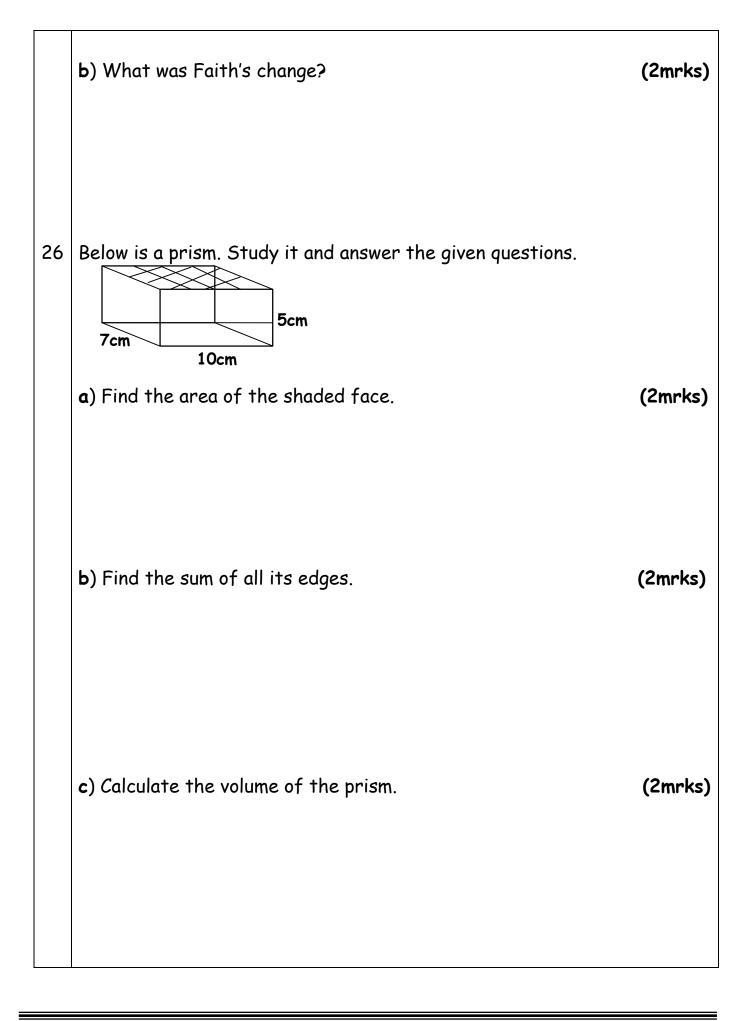


- a) Identify the integer represented by each of the rays. (3mrks)

 - (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.

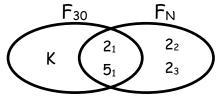
(4mrks)



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 num	nber in words.		(1mrk)
	c) Find the sum o above.	f the value of	4 and the place	value of 5 in the number (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	
	8	8 5	40	
	a) Complete the o	1	10	(3mrks)

	b) How many pupils did the tests? (1n	nrk)
29	 a) With the help of a ruler, pencil and a pair of compasses only. Construct a quadrilateral ABCD in which AB=8cm and AD = 6cm. (4mr) 	ks)
		.1.3
	b) Measure the length of diagonal BD. (1m	rk)
30	Ken, Lydia and Martha shared sh. 200,000 in the ratio 2:5:3 respectively. How much money did each of them get? (4mm	ks)

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)