MOTHERCARE PREPARATORY SCHOOLS

REVISION WORK TERM I - 2020

P.7 MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

A = 40 B = 60 7 = 100%

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Random No.	Personal No.

Candidate's Name:	GUIDE SET IV
Candidate's Signature:	Stream:
School Random No:	
District ID:	

Read The Following Instructions Carefully.

- The paper has two sections: A and B.
- All the working for both sections A and B must be shown in the spaces
 provided.
- All working must be done using a blue or black ball point pen or fountain pen. Diagrams must be drawn in pencil.
- 4. Un necessary changes of work may lead to loss of marks.
- 5. Any handwriting that cannot easily be read may lead to loss of marks.
- Do not fill anything in boxes indicated: "For Examiners' Use only" and those inside the question paper.

	FOR EXAMINE	ERS' USE ONLY	
SECTION	EXRS MARKS	T/L MARKS	OFFICE
A			
В			
TOTAL			

2. Write "Four hundred nine" in Roman numerals.

$$+ \frac{9 = 1x M}{409 = CD1X}$$

409 = CDIX

3. Simplify:
$$3(a-4)-2(a+5)$$

 $3(a-4)-2(a+5)$
 $3(a-4)-2(a+5)$
 $3(a-4)-2(a+5)$
 $3a-3x4-2xa-2x$
 $3a-3x4-2xa-2x$
 $3a-12-2a-10$
 $3a-12-2a-10$
 $3a-2a-12-10$
 $3a-2a-12-10$
 $3a-2a-12-10$

Simplify:
$$3(a-4)-2(a+5)$$

 $3(a-4)-2(a+5)$
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 $3a-3x4-2xa-2x5$
 $3a-3x4-2xa-2x5$
 $3a-12-2a-10$
 $3a-12-2a-10$
 $3a-2a-12-10$
 $3a-2a-12-10$
 $3a-2a-12-10$

4. Twelve litres of milk were given to some children. If each child got 3/4 of a litre of milk, how many children got the milk?

10

15, find the second number.

5. The LCM of two numbers is 60 and their GCF is 3. If one of the numbers if Let the second number be y LCMXCCF = First number X second number 60 x 3 = 15 x y m 180 = 15y 180 = 15y 12 = 41

Method 11

(a) $X + 90^{\circ} + 50 = 180^{\circ} (\text{int.} \angle \text{sum of a triangle})$ $X + 140^{\circ} = 180^{\circ}$ $X + 140^{\circ} - 140^{\circ} = 180^{\circ} - 140^{\circ}$ $X + 140^{\circ} - 140^{\circ} = 180^{\circ} (\text{supplementary angle})$ $X + 140^{\circ} - 180^{\circ} (\text{supplementary angle})$

y+ x = 180° (supplementary augles)
y+ 40° = 180°
y+ 40° = 180° - 40°
y = 140°

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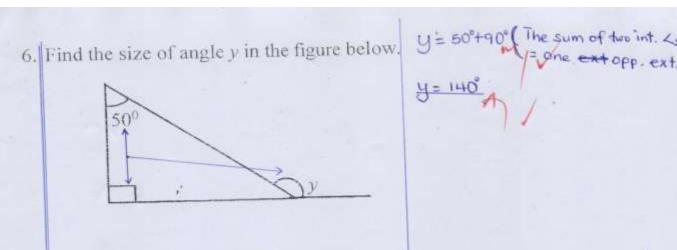
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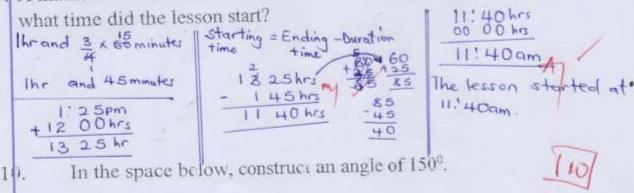
7. Andrew deposited sh. 600,000 in the bank that offers an interest rate of 3% per year for 1½ years. Find the interest earned by Andrew.

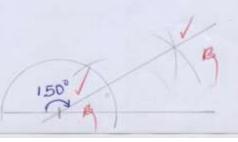
8. Change 25 m/s into km/hr.

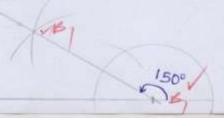
1000m = 1km

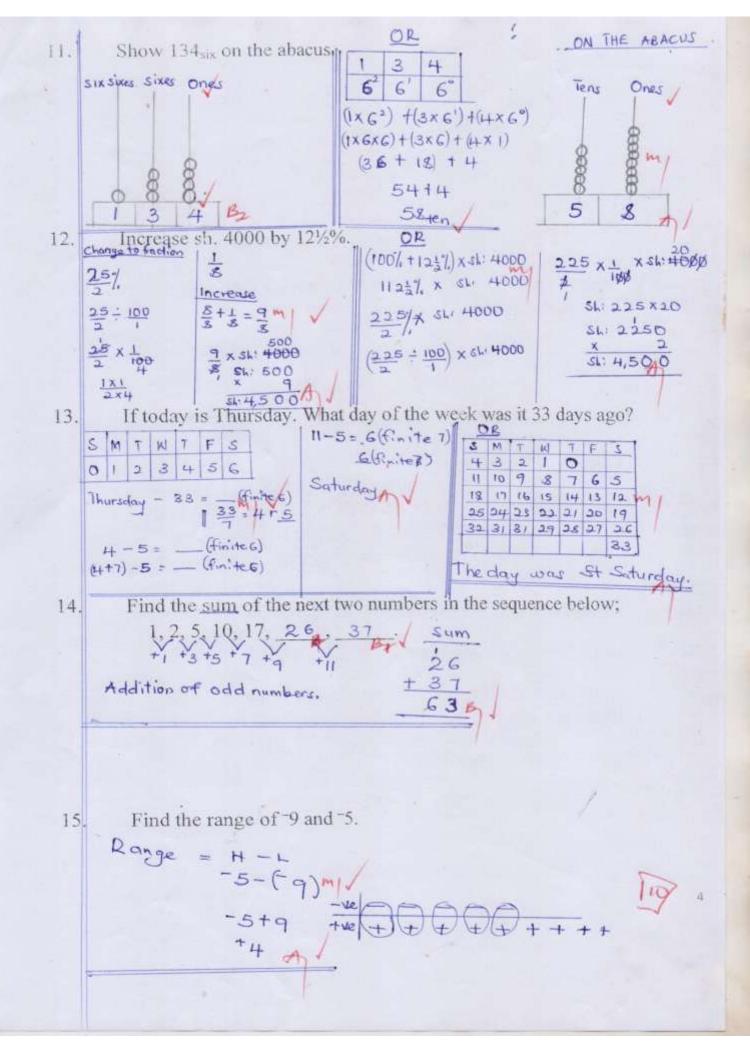
$$25m = \frac{25}{1000}$$
 km
 $3600 \text{ sec} = 1 \text{ hr}$
 $1 \text{ sec} = 3600 \text{ hr}$
 $3 = \frac{25}{1000}$ km $\times \frac{18}{3600}$
 1 hr
 $1 \text{ sec} = 3600 \text{ hr}$
 $3 = (5 \times 18) \text{ km lhr}$
 $5 = 90 \text{ km lhr}$

9. A mathematics lesson ended at 1: 25 pm. If it had lasted for 13/4 hours, at









16. Solve:
$$5-3x=17$$
 $5-3x=17$
 $5-3x=17$
 $5-3x=17$
 $5-3x=17$

17. Work out: $5\frac{3}{4} \div 2\frac{1}{4}$

$$5\frac{3}{4} \div 2\frac{1}{4}$$

$$2\frac{3}{4} \div 4$$

$$2\frac{3$$

n = 6 elements

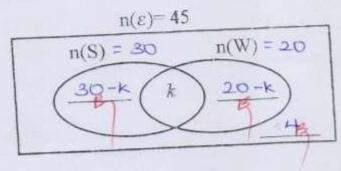
5

64 = 26

SECTION B: (60 MARKS)

- In a party of 45 guests, 30 drink soda (S), 20 guests drink water (W) -only, k drink both soda and water while 4 guests do not drink any of the two drinks.
- a) Complete the Venn diagram below.

(3marks)



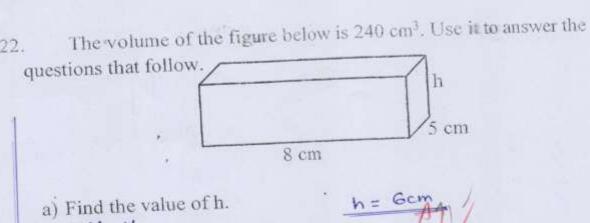
b) Find the value of k.

(2marks)

$$30+20-k+4=45m$$
 $(50+4)-k=45$
 $54-k=45$
 $54-54-k=45$
 $-k=-9$
 $-k=-9$
 -1

c) How many guests drink only one drink?

(Imark)

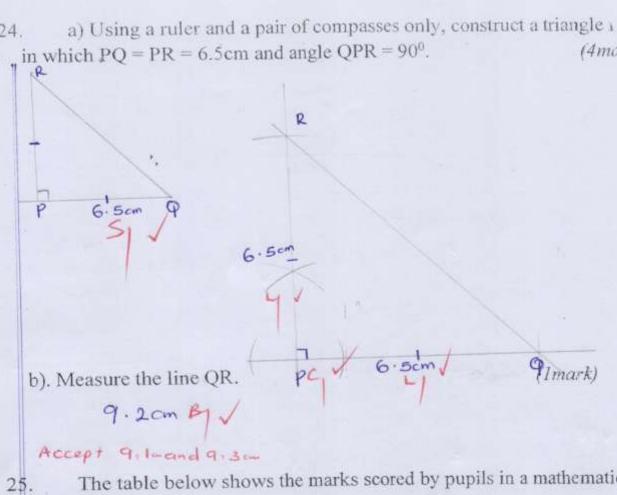


b) Work out the total surface area of the figure above.

b) Work out the total surface the strate that
$$S$$
 and S are S S and S are S and S are S and S are S are S and S are S are S and S are S and S are S and S are S and S are S are S and S are S are S and S are S and

23. The sum of the values in the table are the same vertically, horizontally and diagonally. Fill in the missing values to complete the table.

Magic sum					
(1+15+14+4)	1	15	14 -	4	1
34//	12	6 _B	1	9	[10]
· ·	8	10	011	195	
	131	/	12	16	
34-(1H2+8) 21		(12+	7+9)	+ 12 + 16 28	34 - (10+8+5) 18
34-(1+2+8) 21 34-21	34	-28		28	34 - 23 23
13 /	34	- (4+	9+5)	13	34-(13+16+2) +29
	The second secon	-18	/-	18	34 - 31 31
		16			3/



The table below shows the marks scored by pupils in a mathematics test.

Marks scored	80	70	90	60
Number of pupils	2	3	1	4

a) How many pupils sat for the test?

(4mai

91mark)

b) Find the mode.

-	
т	4001
	DAL
	Carlotte /
•	

(1mark)

1	Marks	Tallies	
1	90	1	
	80	11	
	70	///	- Anna - North
	60	///	e mode

c) How many pupils scored above the mean mark?

(2marks)

Mean = Sum of items

Number of items

=
$$(80\times2) + (90\times1) + (70\times3) + (60\times4)$$

= (10)

= $(160 + 90) + (210 + 240)$

= $(250 + 450)$

= (10)

The mean mark is 70 marks

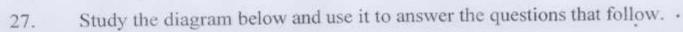
26. Mutoni went to the market and bought the items as shown on the table below.

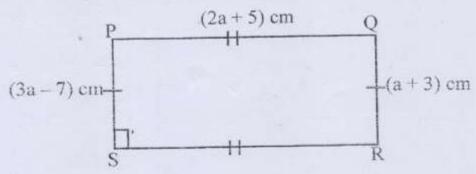
Item	Quantity	Unit price	Total cost	
Sugar	2 kg	Sh. 3,500 per kg	Sh. 7000B	
Meat	3 _{6.kg}	Sh. 8,000 per kg	Sh. 24,000	
Milk	2½ litres	Sh. 1,200 each litre	Sh3,000	
Bread	4 loaves	Sh. 2000 @ loaf	Sh. 8,000	
	Total expe	Total expenditure		

a) Complete the table above.

Sugar	Meat	Milk
sh: 3500	(et 24000)	2= 7
X 2	(SE SOOD Kg	5
sh:7,000		3
1-3-	319	
		Sh:

a) If she went with sh. 50,000, find her change.





$$3q-7 = q+3$$
 $2 = -7+7 = q+3+7$

$$3a-q=q-q+1$$

$$2q=10$$

$$\frac{2q=\frac{50}{2}}{4}$$

(9+3)cm (2x5)+5)ay (10+5) av

15c) Calculate the total distance round the figure above.

28. a) Work out:
$$\frac{0.24 \times 1.5}{0.8 \times 0.5}$$

b). Simplify:
$$\frac{2}{3} \times \frac{3}{4} \div \frac{5}{6}$$

$$\frac{2}{3} \times \frac{3}{4} \div \frac{5}{6}$$

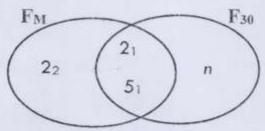
$$\frac{2}{3} \times \frac{3}{4} \times \frac{5}{6}$$

$$\frac{3}{5} \times \frac{3}{5} \times \frac{3}{5} \times \frac{3}{5}$$

$$\frac{1 \times 1 \times 3}{1 \times 1 \times 5}$$

$$\frac{3}{1 \times 1 \times 5}$$

The Venn diagram below represents the prime factors of two numbers. 29 Use it to answer the questions that follow.



a) Find the value of n.

Find the value of
$$n$$
.

$$F_{30} = \{2_1, 5_1, n\} \quad n = 3_1$$

$$30 = 2 \times 5 \times 2_1$$

$$30 = 10n$$

$$30 = 10n$$

$$10$$

b) Calculate the value of M.

c) Work out the GCF of M and 30.

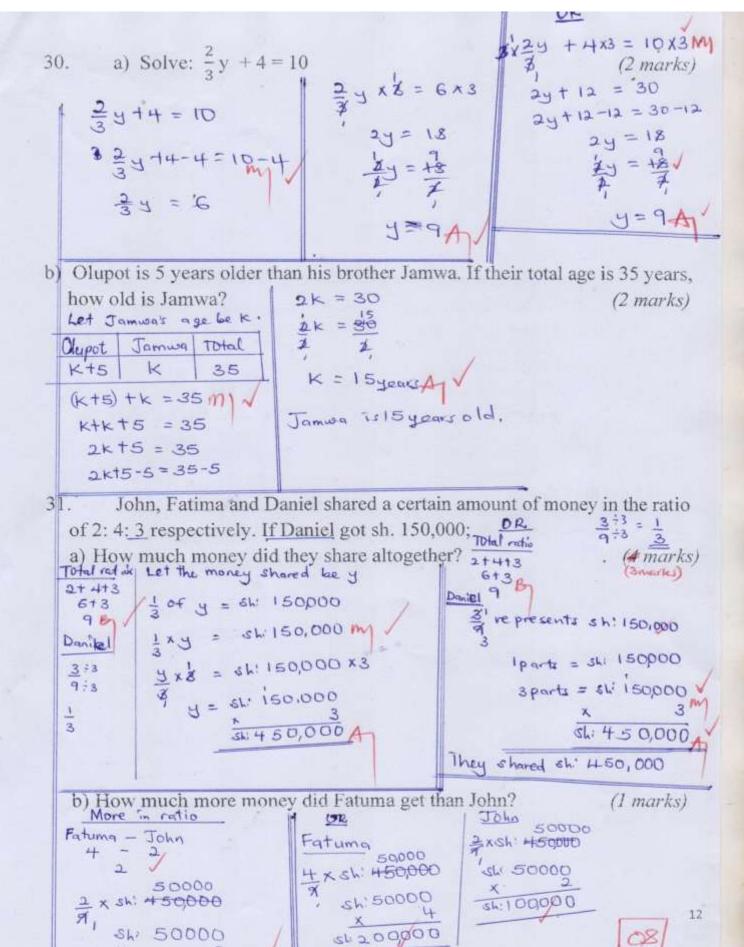
(2marks)

(2 marks)

(2marks)

(Imark) (Imarks)





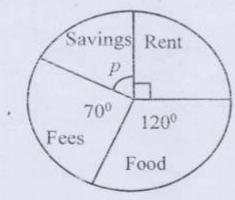
sk: 100,000

More monety

Sh 200000

Sh: 100,000 Bmore.

 The pie-chart below shows Muzorewa's monthly expenditure. Use it to answer the questions that follow.



a) Find the value of p in degrees.

$$P + (90^{\circ} + 70^{\circ} + 120^{\circ}) = 360^{\circ}$$
 $P + 280^{\circ} = 360^{\circ}$
 $P + 280^{\circ} - 280^{\circ} = 360^{\circ} - 280^{\circ}$
 $P = 80^{\circ} A$

(2 marks)

b) If he spends sh. 180,000 on rent, find his monthly income.

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