END OF FIRST TERM EXAMINATION

MATHEMATICS

PRIMARY FIVE

Time allowed: 2hours 30 minutes

Name : _____

School : _____

Stream : _____ Date: _____

Instructions:

→ Answer all questions.
→ Answers must be written in a blue / black ball pointed ink pen.
→ Only diagrams or graph work must be done using a pencil.
→ Avoid un necessary crossing of work and write well.

SECTION A: 40 MARKS

1	Workout: 4 x 2
2	Write in figures: four thousand, seventy-five.
3	Set K = {d , r , o , p} and set T = {p , o , d}. Describe the two sets using = or ≠. Set K _____ set T
4	Find the next number in the sequence: 5 , 8 , 11 , 14 , 17 , ____

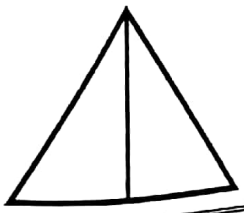
5 Without dividing, which two numbers are divisible by 3?

480 , 130 , 540 , 260

6 Which of the following fractions is equivalent to $\frac{1}{3}$?

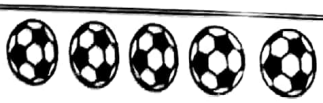
$\frac{3}{6}$, $\frac{4}{15}$, $\frac{3}{9}$

7 How many triangles are in the figure below.



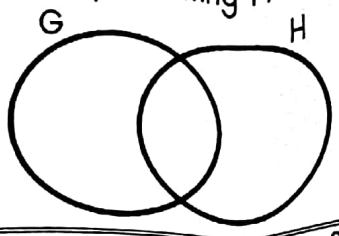
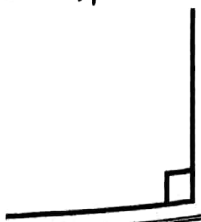
8 Express XIV in Hindu Arabic numerals.

9 Change 2kg to grams.

10 Given that  stand for 20 balls. How many balls does  stand for?

11 Find the missing number:

$6 + \square = 14$

12	Find the sum of all factors of 10.
13	Regann paid sh.40,000 for a radio of sh. 32,400. Find his change.
14	Shade the region representing H - G on the Venn diagram below. 
15	During a football match, there were 3,758 females and 5,067 male spectators. Find the total number of spectators watching the match.
16	Add: $4\frac{2}{8} + 3\frac{3}{8}$
17	A trader bought a bag at sh. 30,000 and sold it for sh. 45,000. Find her profit.
18	Name the type of angle shown below. 

19 Represent 28 using

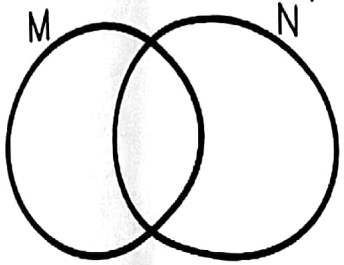
20 What is $\frac{2}{5}$ of 150?

SECTION B: 60 MARKS

21 Set M = {all even numbers between 5 and 15} and set N = {4 , 5 , 7 , 10 , 13 , 14}

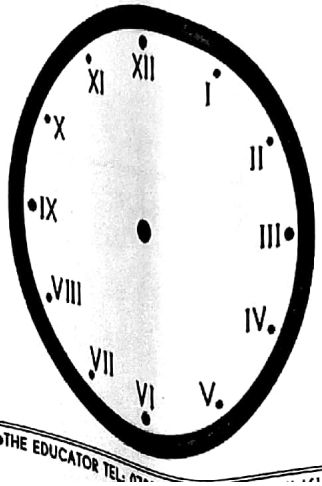
a. List all members of set N. (1 mark)

b. Use the above information to complete the Venn diagram below. (3 marks)



c. Find n(N - M) (1 mark)

22 a. Show 9:30 on the clock face below. (2 marks)



b. A meeting started at 10:30a.m and ended at 11:40a.m. How long was the meeting? (2 marks)

23 a. List all multiples of 5 less than 40. (2 marks)

b. What is the difference between the fifth even number and the third odd number? (3 marks)

24 a. Add: (2 marks)

l	ml
3	2 4 0
+ 2	4 7 5

b. How many half litre cups can fill a 10 litre container? (2 marks)

25 a. Workout: $3 - \frac{4}{5}$ (2 marks)

b. Change $\frac{49}{6}$ to mixed fraction. (2 marks)

c. In a class of 20 pupils, $\frac{1}{4}$ of them are absent. How many pupils are present? (2 marks)

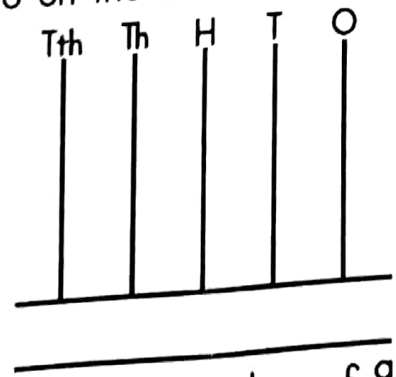
26 During the trip to the park, P.5 class used 4 coasters as follows; the first three coasters carried 13 boys and 15 girls each; the fourth coaster carried 8 boys, 9 girls and 7 teachers.

a. How many pupils were carried by the three coasters? (2 marks)

b. How many girls went for the trip? (2 marks)

c. Find the total number of people who went for the trip. (2 marks)

27 a. Show 20,453 on the abacus below. (2 marks)



b. Find the product of the values of 9 and 7 in the number 23,907. (3 marks)

28 Study the price list below and answer the questions that follow.

* meat → sh. 15,000 per kg
* rice → sh. 4,000 each kg
* tomatoes → sh. 2,000 per heap
* cooking oil → sh. 7,500 per litre

a. What is the most expensive item on the list above. (1 mark)

b. How much did Deborah pay for 4 litres of cooking oil? (2 marks)

c. Solomon had sh. 5,000 and bought a heap of tomatoes. Find his change. (2 marks)

29 a. What number has been prime factorised to get $2 \times 2 \times 3 \times 3$? (2 marks)

b. Find the LCM of 8 and 12. (2 marks)

c. Find the HCF of 8 and 12. (2 marks)

30 A rectangular compound is 20m long and 10m wide.

a. Workout its area. (2 marks)

b. Find the distance around the compound. (2 marks)

31 a. What is the place value of 2 in the number 123_{five}? (1 mark)

b. Change 23_{five} to base ten. (2 marks)

c. Change 16_{ten} to base five. (2 marks)

32 Larry did mid of term exams and scored as follows.

Subjects	ENG	SCI	S.ST	MTC	Total
Marks	72	____	86	94	330

a. Find the total marks he scored in MTC, ENG and S.ST. (2 marks)

b. How many marks did he score in SCI? (2 marks)

c. Which subject did he do best? (1 mark)

Wish You Success...!

PRIMARY FIVE END OF FIRST TERM MA... MARKING GUIDE.

No. Solution:

1. $\begin{array}{r} 4 \\ \times 2 \\ \hline 8 \end{array}$

2. four thousand = 4,000
seventy-five + 75
4,075

3. set ≠ setT

4. 5, 8, 11, 14, 17, 20
+3 +3 +3 +3 +3

5. ~~two~~ and ~~five~~ 540,450

6. $\frac{3}{6}$ is equivalent to $\frac{1}{2}$

7. 3 Triangles

8.

X	IV
10	4

∴ XIV = 14

9. 1kg = 1000g
2kg = (2 × 1000)g
= 2000grams

10. 5 ball → 20 balls
1 ball → (20 ÷ 5) ball
= 4 balls
1 ball stand for 4 balls

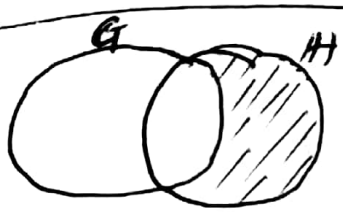
11. $6 + \square = 14$
$6 - 6 + \square = 14 - 6$
$\square = 8$

12.

No. Solution:

12. Factors of 10:
$10 \div 10 = 1$
$10 \div 5 = 2$
$10 \div 2 = 5$
factors of 10 = {1, 2, 5}
sum = 1 + 2 + 5
= 8

13. $\begin{array}{r} \overset{3}{\cancel{4}}\overset{9}{0},000 \\ -\text{sh. } 32,400 \\ \hline \text{sh. } 7600 \end{array}$

14. 

15. $\begin{array}{r} {}^{1}3,{}^{1}758 \\ +5067 \\ \hline 8,825 \text{ spectators} \end{array}$

16. $4\frac{2}{8} + 3\frac{3}{8}$

$\frac{D \times W + N}{D} + \frac{D \times W + N}{D}$

$\frac{(8 \times 4) + 2}{8} + \frac{(8 \times 3) + 3}{8}$

$\frac{32 + 2}{8} + \frac{24 + 3}{8}$

$\frac{34}{8} + \frac{27}{8}$

$\frac{34 + 27}{8}$

$= \frac{61}{8} = 7\frac{4}{8}$

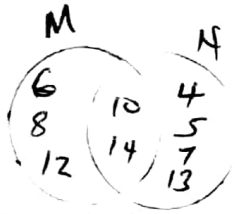
17 S.P − B.P = profit.
Sh.(45,000 − 30,000) = profit.
= Sh. 15,000 her profit.

18 Right angle.

19 5 5 5 5 5 3

20 $\frac{2}{5} \times \frac{30}{1}$
12×30
$= 60$

21 Set N = {4, 5, 7, 10, 13, 14}



(c) n(N − M) = {4, 5, 7, 13}
n(N − M) = 4 elements

22

22(b) Ending time − starting time

Ending	Starting
14	40 a.m
10	30 a.m
1	10

The meeting took 1 hour and 10 minutes.

23 (a) multiples of 5
{5, 10, 15, 20, 25, 30, 35, }

(b) Even = 0, 2, 4, 6, (8), 9, 10, 12
Odd = 1, 3, (5), 7, 9, 11
Difference = 8 − 5 = 3

24(a)

L	ML
3	240
+ 2	475
5	715

(b) $(\frac{1}{2} \times 10)$ litre.
$= 5$

25 (a) $\frac{3}{1} - \frac{4}{5}$
$\frac{5 \times 3 - 1 \times 4}{5}$
$15 - 4$
5
$= \frac{11}{5}$

$\frac{5 \times 3 - 1 \times 4}{5}$
$15 = 4$
5
$=$

(b) $\frac{49}{6}$

$6\overline{)49}$ $8\frac{1}{6}$
-45
4
$= 8\frac{1}{6}$

(c) $\frac{1}{4} \times \frac{20}{1}^{5}$
5 pupils were present.

26(a) 13 + 15 = 28 pupils
(28 × 3) = 84 pupils

S.U
28
× 3
84

(b) 15 + 9 = 24
(24 × 3) = 72 girls

Total = (84 + 72) + 7
163 people went for a trip

27(a)

× 5907

Th	Th	H	T	O
2	3	9	0	7

(7 × 1) = 7

(9 × 100) = 900

product = 900 × 7 = 6300

28 a) meat.

(b) cooking oil.

1 litre → sh. 7500

4 litres → × 4

sh. 30,000

(c) Tomatoes

sh. 5000 − sh. 2000

sh. 3000

29 2 × 2 × 3 × 3

4 × 9

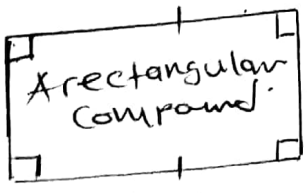
= 36

HCF 8 and 12

②	8	12
②	4	6
2	2	3
3	1	3

HCF of 8 and 12 = 2

30



A = l × w

= 20 × 10 × m × m

(b) Total distance

2(l + w)

2(20 + 10) m

2(30) m

= 60m

31 | ff | f | o |
|---|---|---|
| 1 | 2 | 3 |

three

five

(b) 23_{five} — ten

(2 × 5) + (3 × 5) — ten

10 + 3 — ten

= 13 ten

No	Base	rem
16	5	1
	3	

31 five

32 72 + 86 + 94

= 252

$\begin{array}{r} {}^{2}{}^{13} \\ 8\not{3}0 \\ -\ 252 \\ \hline 78 \end{array}$

(c) mathematics

END