RAPHA EXAMINATIONS BOARD

" Education is an Investiment"

P.7 STANDARD WEEKLY EXAMS SET **16**

MATHEMATICS

Time allowed: 2 Hours 30 Minutes

Random No.							Personal No.		

CANDIDATE' NAME:……………………………………………………………………

CANDIDATE'S SIGNATURE:…………………………………………………………

DISTRICT NAME:……………………………………………………………………………

Read the following instructions carefully:

1. This paper has **two** sections: **A** and **B.**
2. Section **A** has **40** questions (**40 marks**)
3. Section **B** has **12** questions (**60 marks**)
4. Answer **all** questions . all answers to both sections **A** and **B must** be written in the spaces provided.

5. **All** answers must be written using a **blue** or **black ball** point **pen** or i**nk**. Diagrams should be drawn in a pencil.
6. **Unnecessary** changes in your work may lead to **loss** of marks.

7. Any handwriting that **cannot** be easily read may lead to **loss** of marks.
8. **Do not** fill anything in the table indicated: **" FOR EXAMINERS' USE ONLY"** and boxes inside the question paper.

TURN OVER

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1.   Subtract: 9   9
                     - 8   6
                     _____

2.   Write **XIX** in Hindu Arabic.

3.   Add: $\frac{2}{3}$ + $\frac{3}{4}$

4.   Express 50cm in metres.

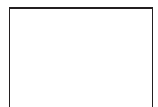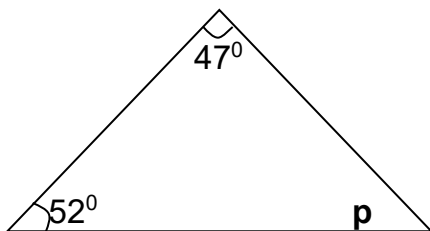5.   Simplify: 3a - 4a + 7a

Turn over

6. Find the square root of $1\frac{7}{9}$

7. A trader sold a radio at Sh. 125,000 and made a profit of Sh. 9000. How much did he buy the radio?

8. Find the greatest common factor of 12 and 18.

9. Calculate the value of angle **P** in the figure below.

$$47^0$$

$$52^0$$

p

10. The cost of 3 books is sh. 27000. How many books would one buy with sh. 45000?

11. Add: 1011_{two} + 111_{two}

12. Solve: $3y + 5 = 20$

13. Shade $\dfrac{3}{4}$ of the given figure.

14. A milk man has 12 litres of milk. He packs the milk in half litre sachets. How many half litre sachets did he get?
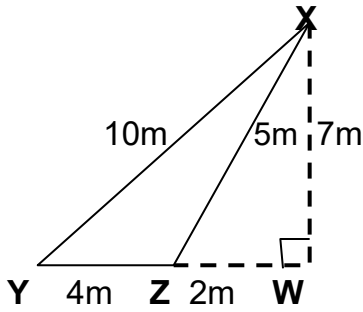
Turn over

15. Work out: 4 - 5 = (Mod 7)

16. Find the product of 321 and 23.

17. Express 3.30p.m in a 24 hour clock.

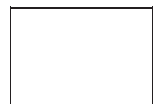18. Find the prime factorization of 36. (answer in set notation)

19. Calculate the area of triangle **XYZ** in the figure below.

20. If set **N** = {1, 2, 3} Using listing method, find the number of subsets that can be got from set **N**.
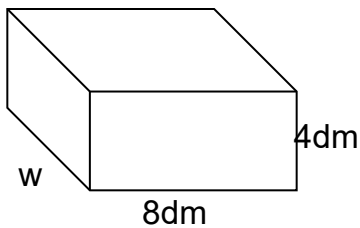
SECTION B: 60 MARKS

21. In a class of 72 children, $\frac{2}{3}$ of them like sports and the rest like music.

    (a) How many children like sports? *(2 marks)*

    (b) What fraction like music? *(2 marks)*
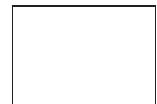
(c)   How many more pupils like sports than music?   *(2 marks)*

22.   (a)   The volume of the figure below is 160 cu.dm. Calculate its width.
                                                                        (3 marks)

4dm

w

8dm

(b)   Find its total surface area.   *(3 marks)*

(c)   How many vertices does it have?   *(1 mark)*

23.   Miiro scored the following marks in a test.
        50, 60, 55, 50, 80
(a)   Find his mode mark.   *(2 marks)*

(b)   Work out his mean mark.   *(2 marks)*
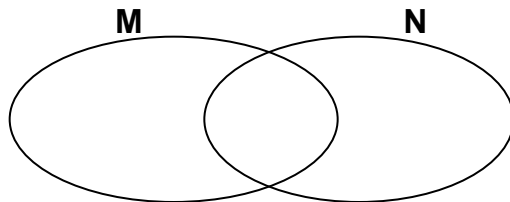
(c)   What was his median mark?   *(2 marks)*

24.   Given that set **M** = {the first five alphabetic letters} and set **N** = {vowels}
       (a)   Show this information on the venn diagram below.   *(3 marks)*

M   **N**

(b)   Find **M∩N**   *(1 mark)*

(c)   Find **N – M**   *(1 mark)*

25   (a)   Draw a regular triangle in a circle with a radius of 4cm.

(4 marks)

(b)   What special name is given to this triangle?   *(1 mark)*

26.   (a)   Musoke drove a car at a speed of 60km per hour for 2 hours. What distance did he cover?   *(2 marks)*

(b)   How long would he take to cover 80km?   *(2 marks)*

27   Lukia went shopping with Sh. 50000 note and bought the following:-
       2kg of rice at sh. 2800 @ kg
       4 bars of soap at sh. 2500 each.
       5kg of salt at sh. 3000
       1 ½ kg of maize flour at sh. 1600 per kg.

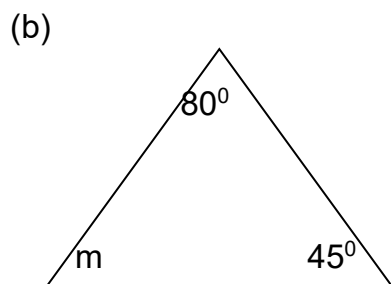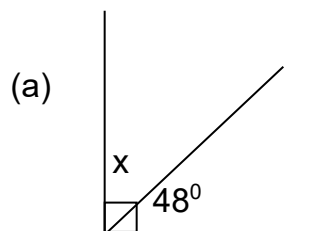   (a)   Calculate her bill.   *(4 marks)*

       (b)   What change did she get?   *(2 marks)*

28.   Find the value of unknown angles.   *(2 marks each)*

(a)

x

48^0

(b)

80^0

m 45^0

10   **Turn over**

29. Juma used his land as follows:-

¼ for growing crops.

$\frac{1}{3}$ for grazing goats

$\frac{1}{6}$ for a house and compound and the rest for rearing birds.

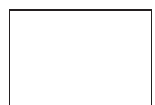Use the accurate circle below to draw a pie chart showing the above information without using degrees. *(4 marks)*

30 Complete the statements using **>**, **<** or **=** *(1 mark each)*

(a) 3 + 2 _____ 2 x 3

(b) 72 ÷ 6 _____ 5 + 7

(c) 104^0 _____ 104 x 0

(d) 1kg of stones _____ 1000 gm of cotton

11

31. (a) Arrange the following in descending order.

$$\frac{2}{3}, \quad \frac{7}{12}, \quad \frac{1}{2}, \quad \frac{3}{4}, \quad \frac{5}{6}$$

(3 marks)

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

(2 marks)

(2 marks each)

32. Work out:

(a)

Wks	Days
5	2
- 3	6

(b)

Hr	Min
3	48
+4	52

END

12