

PEAK PRIMARY SCHOOL

END OF MAY TERM TWO EXAMINATION 2022

CLASS : P.7

SUBJECT : MATHEMATICS

DURATION : 2 HOURS 30 MINUTES

Index No.

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Candidates Name

Candidates' Signature

District Name

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Read the following instructions carefully

1. This paper has two Sections: A and B.
2. Section A has 20 answer questions (40 marks)
3. Section B has 12 questions (60 marks)
4. Answer ALL questions. Answers to both sections must be written in the spaces provided.
5. All answers must be written using blue ink. Diagrams should be drawn in pencil.
6. Unnecessary alteration of 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 box indicated for examiner's use only.

For Examiner's use only	
A	
B	
TOTAL	

SECTION A -20 QUESTIONS (40 MARKS)

1. Work out : 434

+ 165

2. Collect like terms and simplify : $3k - 4h + 7k + 9h$

3. Write 104,346 in words.

4. Prime factorise 28 and write the prime factors in set notation.

5. Work out : $11 - 2 \times 4$

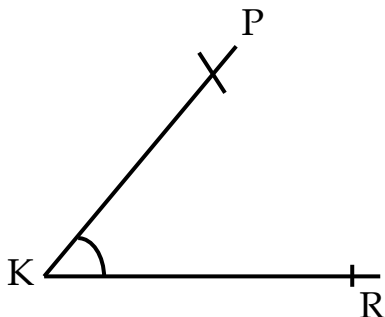
6. Given that  represents 15 girls and  represents 18 boys. How many children are represented by     ?

7. Write the afternoon time shown on the clock face below.



8. A trader bought an article at shs. 93,000 and later sold it at shs. 104,000. Find the profit the trader made.

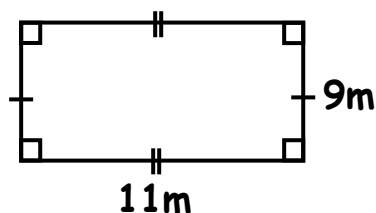
9. With the help of a protractor, measure the small angle PKR in degrees.



10. Express 0.181818..... as a common fraction in its form.

11. Arrange -3 , $+4$, -2 , 0 , $+3$ in descending order.

12. The figure below is a rectangle. Work out its perimeter.



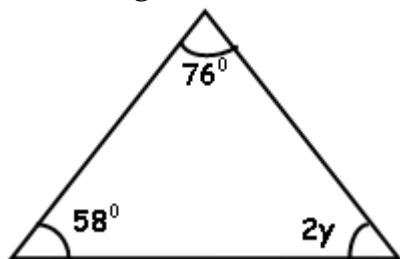
13. Work out the value of 8 in the number 16.485.

14. Given that $K = \{ a, b, c, d \}$. How many subsets does set K have?

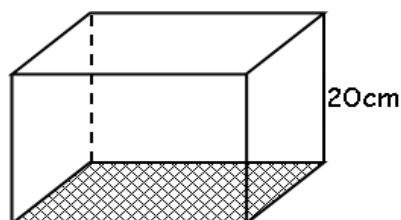
15. Find the square root of 144.

16. Write **CXCVII** in Hindu -Arabic numerals.

17. In the figure below, find the value of y in degrees.



18. The area of the shaded part of the rectangular prism below is 80cm^2 .
Work out its volume.

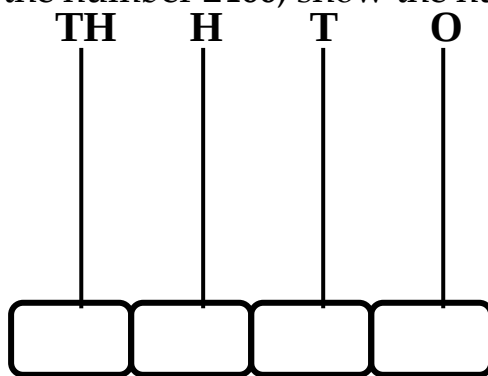


19. Set $A = \{ 1, 3, 4, 6, 7 \}$ and Set $Q = \{ 0, 6, 9, 12 \}$. Find $n(A \cup Q)$

20. Change 201_{three} to base ten.

SECTION B 12 QUESTIONS (60 MARKS)

21. a) Given the number **2460**, show the number on the abacus below. (2 marks)



b) Round off the given number to the nearest hundreds. (1 mark)

c) Write the given number in standard form. (2 marks)

22. A family eats a total of 63 bananas for three consecutive days. It eats one more banana than the previous day.

a) If k bananas are eaten on the first day, find the value of k . (3 marks)

b) How many bananas are eaten on the third day?

(2 marks)

23. At Peak Primary School, a learner scored the following marks in a series of exams: **90 , 80 , 60 , 70 and 80**

a) Find the modal mark.

(1 mark)

b) Calculate the range in the learner's scores.

(2 marks)

c) Work out the learner's average score.

(2 marks)

24. Akello bought the following items from a market.

2 kg of sugar at shs. 4,000 a kg

$\frac{1}{2}$ kg of meat at shs. 14,000 per kg

12 tomatoes at shs. 1,000 for every 3 tomatoes

10 oranges at shs. 3,000

a) How much money was spent altogether?

(4 marks)

- b) If Akello remained with shs. 18,000 after buying all the items, how much money did she have at first? (1 mark)

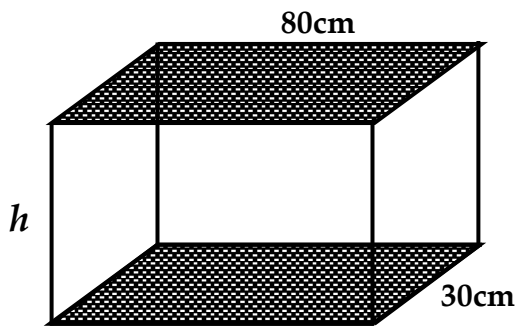
25.a) Work out : $\frac{3}{4} \div 1\frac{1}{4} \times \frac{5}{9}$ (2 marks)

b) Simplify : $\frac{0.72 \times 1.2}{0.4 \times 0.9}$ (2 marks)

- 26.a) With the help of a sharp pencil, a ruler and a pair of compasses only, construct a triangle **MTN** such that **MT** = 6cm , angle **NMT** = 60° and line **MN** = 8cm. (4 marks)

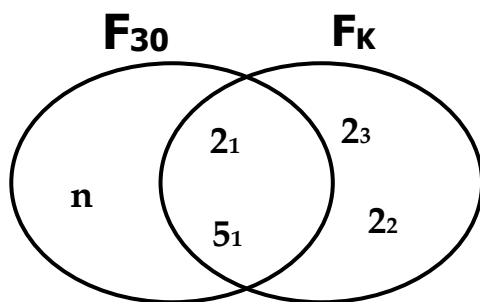
- b) Measure length of line NT.....(1 mark)

27. a) The tank below has a volume of 24000 cm^3 . Find its height, h . (2 marks)



c) Calculate the total area of the shaded faces. (3 marks)

28. The Venn diagram below shows the prime factors of 30 and K . Study it carefully and use to answer the following questions.



a) Find the value of ; (3 marks)
i) n ii) k

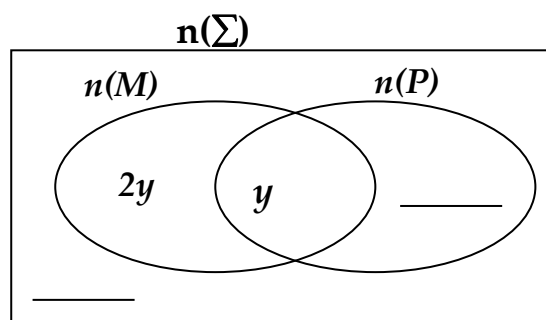
b) Work out the; (3 marks)
i) GCF of K and 30 ii) LCM of k and 30

29.a) A man is 9 years older than his wife. If their total age is 75 years. Find their ages. (3 marks)

b) Find the man's age 5 years ago. (1 mark)

30. At a birthday party attended by guests . $2y$ guests took Mirinda (M) only , $(y+10)$ guests took Pepsi (P) only , y guests took both Mirinda and Pepsi while 2 guests took none of the twoo drinks.

a) Complete the Venn diagram below. (2 marks)



b) If 32 *guests* took pepsi altogether, find the value of y . (2 marks)

c) How many guests attended the party? (1 mark)

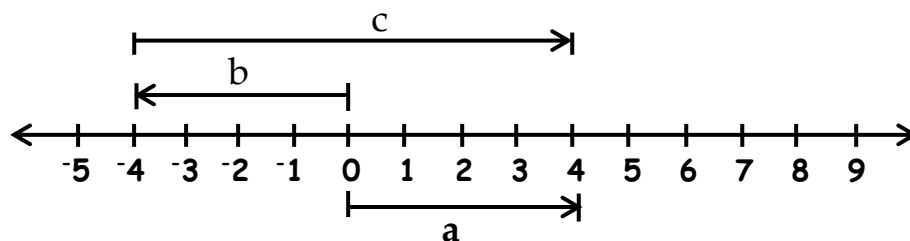
31. A motorist left town T at 3:00 p.m and reached town R at 5:00 p.m after travelling at an average speed of 84 km/hr.

a) How long did the motorist take to travel from town T to town R? (2 marks)

b) Find the distance between town T and town R. (2 marks)

c) Write the time the motorist arrived at town R in 24 hour clock system. (1 mark)

32. Use the number line below to answer questions that follow.



a) Write the integers represented by; (3 marks)

- i. Arrow a
- ii. Arrow b.....
- iii. Arrow c

b) Write the mathematical statement represented on the number line. (1 mark)