

TREASURE PREPARATORY SCHOOL


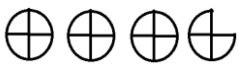
PRE- P7 ENTRANCE SPECIAL EXAMINATION

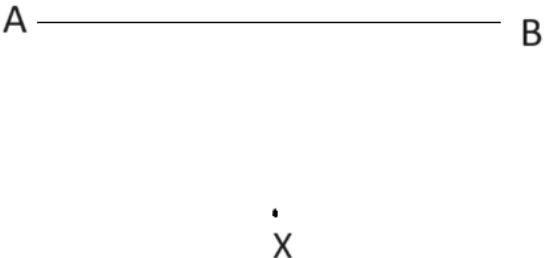
MATHEMATICS

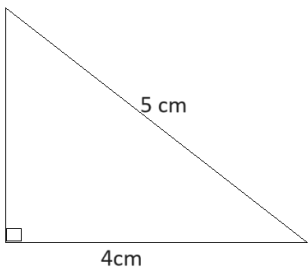
Name: _____

Time allowed: 2 hours and 30 minutes

SECTION A (40 Marks)

1.	Workout: $7 - 6$	2.	Write XLIX in words
3.	Find the biggest number of children who can share 30 mangoes and 18 mangoes equally without leaving a remainder.	4.	Given that  represents 12 balls, how many balls are represented by the pictograph below? 
5.	9 men can dig a garden in 4 days. How many more men are needed to dig the same garden in 3 days?	6.	Set Y has 32 subsets. Find $n(Y)$

7.	A Square garden has area 144 m ² . Workout the length of each side of the garden.	8.	Peter is 3 years older than her sister Penlope. In eight years time, their total age will be 37 years. How old is Penlope now?
9.	Express 40 cm as a percentage of 2m.	10.	A cyclist travelling at a speed of 30km/hr started travelling at 7:00am and finished at 9:30am. What distance, in km, did he travel?
11.	Amina packs milk in packs of 500ml each. How many packs can she get from 45 litres of milk?	12.	Using a ruler and a pair of compasses only, drop a perpendicular line from point X to meet line AB at point O. <div style="text-align: center;">  </div>

13.	Girls are standing in a line and Joan is the 7 th from either side. How many girls are standing in that line?	14.	Find the area of a circle whose diameter is 14dm.
15.	Given that \$1 = Ush. 3750, how many Ush. can a tourist get from \$45?	16.	Multiply : 45 x 23 using lattice method.
17.	Find the area of the triangle below; 	18.	Simplify: $\frac{0.5 \times 0.3}{0.1 \times 0.25}$

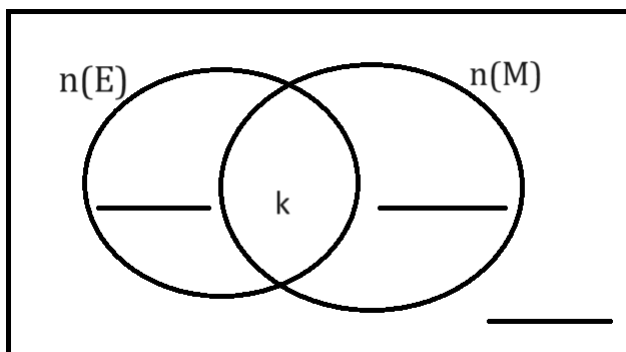
19.	Owen received twenty thousand shilling notes numbered consecutively from AX 0053241 to AX 0053340. How much money did Owen receive?	20.	Increase sh. 1500 by 20%.
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SECTION B (60 Marks)

21. In a class of 90 pupils, 45 like Mathematics (M), 63 like English (E). k pupils like both subjects while 3 like neither of the two subjects.

Use the information above to complete the Venn diagram below; **(3 marks)**

$$n(E) = 90$$



b) If a pupil is chosen at random, what is the probability that he likes only one subject? **(3 marks)**

22. James went shopping and bought the following items;

ITEM	QTY	UNIT PRICE	AMOUNT PAID
Soda	_____ crates	Sh. 20,000 per crate	Sh. 40,000
Salt	5 ½ kg	Sh. 2,000 per Kg	Sh. _____
Books	24 books	Sh. 10,000 per dozen	Sh. _____
TOTAL EXPENDITURE			Sh. _____

a) Complete the table above.

(4 marks)

b) Calculate the money he had at first if he was left with sh. 29,000 after shopping the above items.

(1 mark)

23. a) Using a pencil, ruler and a pair of compasses only, construct a rectangle PQRS in which PQ = RS = 8cm and QR = SP = 6cm.

(4 marks)

b) Measure the length of diagonal QS in centimetres.

(1 mark)

24. A pupil drank $\frac{1}{2}$ of her milk in the morning, $\frac{1}{3}$ of the remainder in the afternoon and the rest in the evening. If she drank 2 litres in the evening, how many litres of milk did she have before? **(5 marks)**

25. a) List down all digits used in base five. **(1 mark)**

b) Change 34_{five} to base three **(3 marks)**

26. The table below shows the marks scored by P6 pupils in a Mathematics examination. Study it carefully and use it to answer the following questions.

Mark	75	85	90
Number of pupils	1	3	6

a) How many pupils did the examination? **(1 mark)**

b) Find the mean mark. **(3 marks)**

c) Find the modal mark **(1 mark)**

27. Owen, Mark and James shared a certain amount of money in a ratio of 2:3:5 respectively. If Mark got sh. 9,000;

a) How much money was shared altogether? **(3 marks)**

b) How much more did James get than Owen? **(3 marks)**

28. Given the digits; 6, 0 and 3

a) Form all the possible three-digit numerals from the above digits. **(2 marks)**

b) Write the sum of all the numerals formed above in words **(3 marks)**

29. At Treasure Preparatory School, the nursery bell sounds every 30 minutes while the primary bell sounds every 40 minutes.

a) After how many minutes do they sound together? **(2 marks)**

b) If they sound together at 8:00 am, At what time will they sound together again? **(3 marks)**

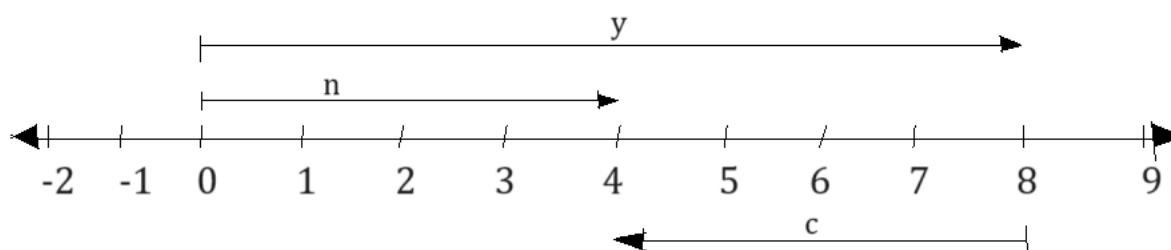
30. a) Solve the equation: $3 + \frac{4}{x} = 5$

(3 marks)

b) Simplify: $3(x+2y) - 2(x+y)$

(2 marks)

31. Study the number line below;



a) Name the integers marked

(3 marks)

i) c _____ ii) n _____ iii) y _____

b) Write down the mathematical statement shown above.

(2 marks)

32. a) Write the third day of the week

(1 mark)

b) Workout the following;

(3 marks)

Days	Hours	Minutes
2	16	35
+1	8	39
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