THE PEARL EXAMINATIONS 2024

KAMPALA SCHOOLS

PRE – MOCK SET I QUALITY ASSURANCE

Primary Seven Mathematics

TIME ALLOWED: 2 HOURS 30 MINUTES

NAME: _____

SCHOOL: _____

DISTRICT:_____**STREAM**_____

Read the following instructions carefully:

1. This paper has two sections: **A** and**B**. Section **A** has **20questions** and **section B** has **12 questions**.

2. Answer **all** questions. All the working for both sections **A** and **B** must be shown in the spaces provided.

3. **All** working **must** be done using a **blue** or **black** ball point pen or ink. Any work done in pencil other than graphs and diagrams will **not** be marked.

4. **No calculators** are allowed in the examination room.

5. Unnecessary **changes** in your work and handwriting that cannot be easily read may lead to **loss of marks.**

6. Do not fill anything in the table indicated **"For Examiners' use only"** and the boxes inside the question paper.

FOR EXAMINERS'USE ONLY		
Qn. No.	**MARKS**	**EXR'S No.**
1-5		
6 -10		
11- 15		
16 – 20		
21 – 22		
23 – 24		
25 – 26		
27 – 28		
29 – 30		
31 – 32		
TOTAL		

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Turn Over

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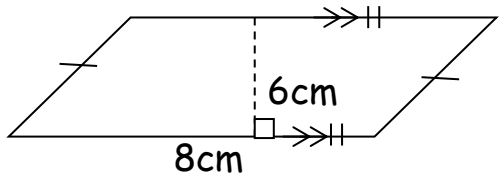
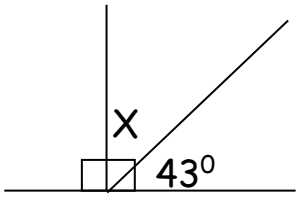
SECTION A

1.	Multiply; 5 x 2	2.	Write 129 in Roman numerals.
3.	Simplify; $m^3 \times m^4$	4.	Work out; $^{-}4 + {}^{+}3$
5.	Write 1,496 in words.	6.	Solve; $3x - 1 = 8$
7.	The cost of 3 books is 2,400/= How much will 5 similar books cost?	8.	**Find the area of the shape below.** 
9.	Calculate the angle marked X below. 	10.	R = {2, 4} calculate the number of subsets set R has.
11.	Find the missing number in the sequence; 17, 13, 11, 7, _____	12.	Simplify; $\frac{8}{9} \div \frac{2}{3}$

13.	Work out; 3 x 5 = ___ (mod7)	14.	Find the square root of $7\frac{1}{9}$
15.	The average of 3, 0, 7 and X is 4. Work out the values of X.	16.	Decrease sh. 80,000 by 10%.
17.	Change 101_{two} into base ten.	18.	Calculate the distance covered by a car which moves at a speed of 60km/h for 2½ hrs.
19.	Using a ruler and a pair of compasses only, construct an angle of 60^0.	20.	In a tin, there are 7 red pens and 8 blue pens. If a pen is picked at a random, what is the probability of picking a red pen?

SECTION B

21. **The sum of three consecutive counting numbers is 48.**

a) Find the numbers. (3marks)

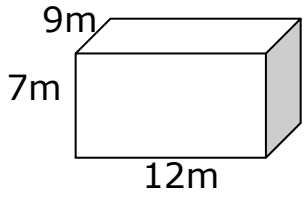
b) Work out the difference between the largest and the least numbers. (2marks)

22. In a class of 75 pupils, $\frac{2}{3}$ are girls and the rest are boys.

a) Find the fraction of boys. (2marks)

b) How many more girls than boys are there in the class? (3marks)

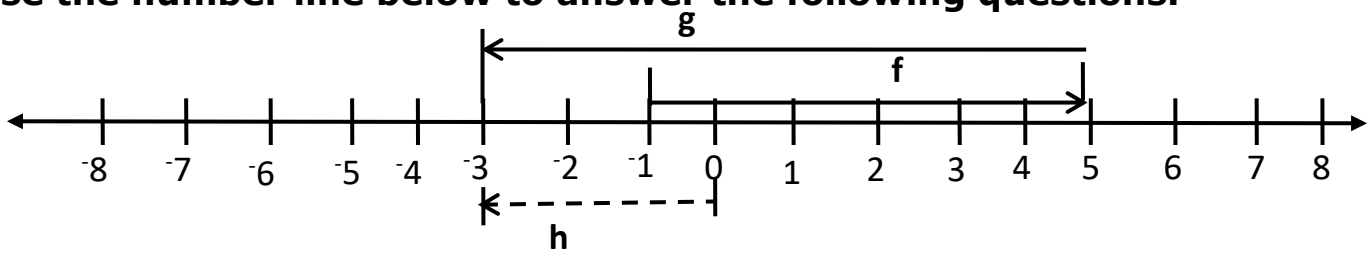
23. **Study the diagram drawn below.**



Calculate the area of the shaded part. (2marks)

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

24. **Use the number line below to answer the following questions.**



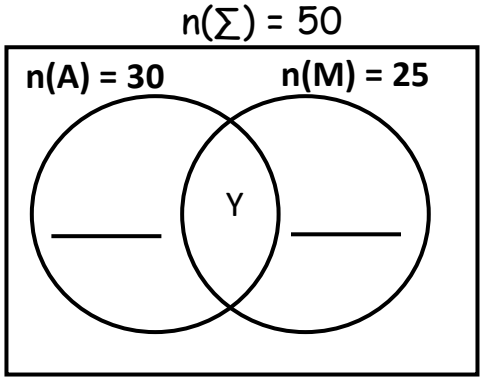
Give the value of; (1mark @)

f _____ g _____ h _____

b) Write down the mathematical statement for the above arrows shown on the number line. (2marks)

25. **Out of 50 spectators, 30 supported Arsenal, 25 supported Manchester United while the rest supported both teams.**

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



b) How many supported both teams? (2marks)

c) If each supporter paid 5,000/= for entry fee, how much was collected that day? (2marks)

26. **Mbidde went to the grocery and bought the following items;**

- 1½ kg of meat at 7,000/= @kg
- 3 cabbages at 2,000/-@ cabbage
- 250grams of rice 4,000/=@ kg
- 2bars of soap at 3,000/=

a) How much was his bill? (4marks)

b) If he was given change of 250/=, how much did he have at first? (1mark)

27. Using a ruler and a pair of compasses only, construct a triangle PQR, where PQ = 6cm, angle RPQ is 60^0 and RP is 4cm. (4marks)

b) Measure angle PQR (1mark)

28. **The table below shows marks scored by different pupils. Study it and answer the following questions.**

Marks	60	40	70	50	80
No. of pupils	2	1	3	2	2

a) Find out the number of pupils who sat for the test? (2marks)

b) Calculate the mean mark. (3marks)

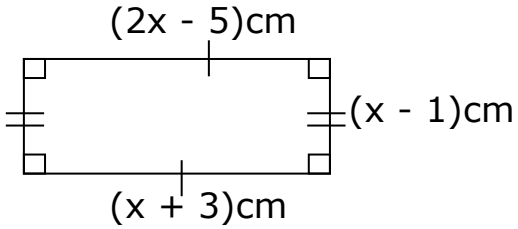
29. **Kweera shared sh. 7,200 among his three children; Allan, Prossy and Esther in the ratio of 3:4:5 respectively.**

How much did each get? (4marks)

b) How much more did Esther get than Allan? (1mark)

30. Study the shape below and work out the following

a) Find the value of X. (2marks)

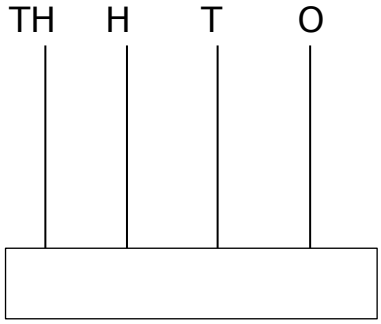


b) Calculate the area of the above shape. (2marks)

31. a) Expand 4503 in powers of ten. (2marks)

b) Find the value of 4 in 4503 (2marks)

c) Put 4503 on the abacus below. (1mark)



32. On the farm there are 30 goats, 50 cattle and 40 sheep. Draw an accurate pie chart to show the animals on the farm. (Use radius of 3cm) (5marks)