



# PROSPER EDUCATIONAL CONCERN PRE-MOCK ASSESSMENT 2024 PRIMARY SEVEN MATHEMATICS

*Time allowed 2 hours 30 minutes*

INDEX NO:

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Personal No.

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Candidate's Name:.....

Candidate's Signature:.....

Candidate's School:.....

District Name:.....

## READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. The paper has two sections A&B  
Section A has 20 short Questions (40 marks)  
Section B has 12 Questions (60 marks)
2. Answer All Questions. All answers to both sections A and B must be written in the spaces provided.
3. All answers must be written using a blue or black ball-point pen or fountain pen.  
Diagrams should be drawn in pencil.
4. Unnecessary changes of work may lead to loss of marks.
5. Any handwriting that cannot easily be read may lead to loss of marks
6. Do not fill any thing in the boxes shown "for Examiners' use only" and those inside the Question paper.

### For Examiners' Use Only

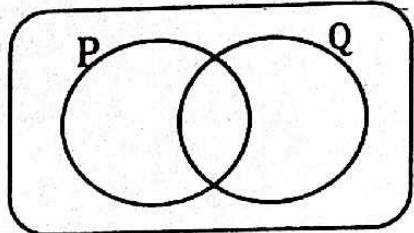
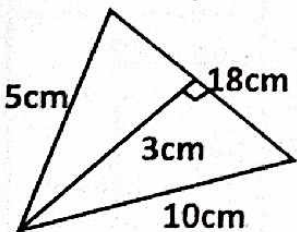
PAGES	MARKS	SIGN
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page - 2		
page - 3		
page - 4		
page - 5		
page - 6		
page - 7		
page - 8		
page - 9		
TOTAL		

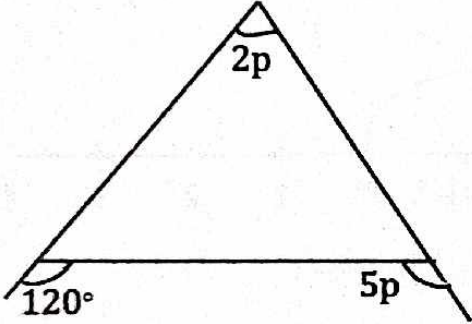
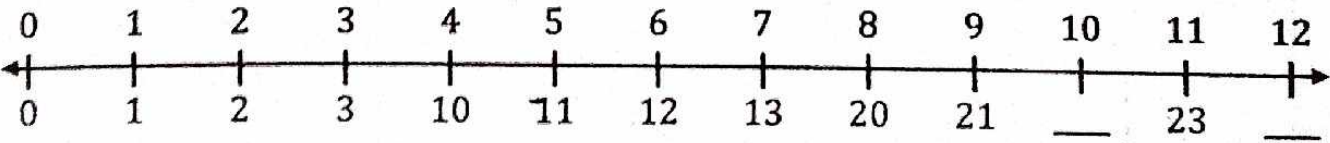


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# SECTION A (40 MARKS)

1.	Workout: $\frac{1}{4}$ of 2 dozens of pens.	2.	Shade either P or Q in the Venn diagram below 
3.	Square the largest integer -4, -2, -3, -8, -6.	4.	How many revolutions are in $1080^\circ$ ?
5.	When a number of plates are multiplied by 5 and then 8 more are added to them, they become 23. Find the number of plates.	6.	When a wheel of a bicycle is rolled once, it covers 3.98cm. What distance in centimeters will it cover when rolled 1000 times?
7.	Find the area of the figure below 		
8.	Simplify: $\frac{12X^3Y^4}{4XY^2}$	9.	Mbabazi bought $2\frac{1}{4}$ kilograms of carry powder, she packed it into packets each weighing 250 grammes. How many packets did she get?

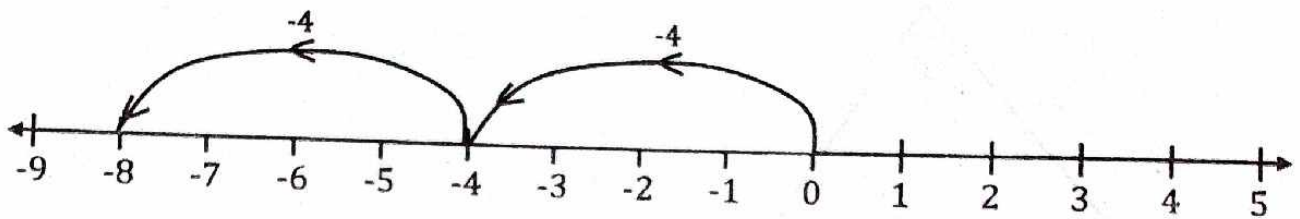
<p>10. If I take 6 hours to mark <math>\frac{2}{5}</math> of the prosper papers allocated to me. For how long shall I take to complete the whole marking?</p>	<p>11. The exchange rate in the forex is Ug. Shs. 3,600 to one dollar. How many dollars does madam Sharifah need in order to buy Ug. Shs. 720,000?</p>
<p>12. Study the diagram and find the value of P in degrees.</p> 	
<p>13. Find the value of <math>t</math> if <math>t^2 = 16 + 4\frac{1}{4}</math>.</p>	<p>14. Write 4056.89 in standard form</p>
<p>15. Count and write base equivalences on the number line given below.</p> <p>Base ten</p>  <p>Base four</p>	



16. Use associative property to work out:  
 $(25 \times 4) \times 9 = 25 \times (\_\_ \times \_\_) = \_\_\_\_\_\_$

17. Byaruhanga a cattle keeper made a circular kraal. He fixed 135 poles at intervals of 5 meters apart. What is the circumference of the kraal?

18. Write the mathematical sentence to satisfy the number line below



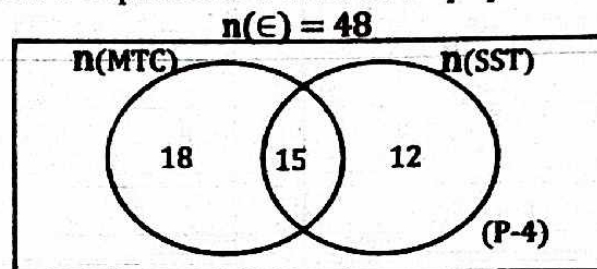
19. Using a ruler, a pencil and a pair of compasses only. Construct an angle which a complement of  $60^\circ$ .

20. Change 18,000 seconds to hours.

### SECTION B (60MARKS)

21. a) List all the proper subsets of  $R$  where  $R = \{-3 < n < +1\}$  where  $n$  is an integer. (03 marks)

b) The diagram below represents a class of 48 pupils.



If  $P-4$  represents the number of pupils who do not like either of the two subjects. Find the value of  $P$ .

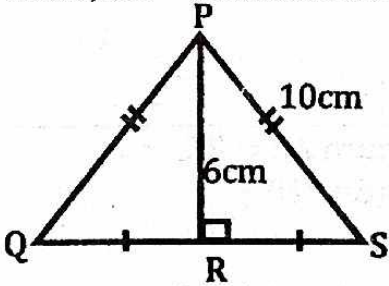
(03 marks)

22. a) Write 2 millions 101 thousands 7 ones as a single number. (02 marks)

b) Write CDXVII in Hindu - Arabic system. (02 marks)

	c) Round off 4962 to the nearest thousands. (02 marks)	
23.	a) Express 0.7272.... as a common fraction. (02 marks)	b) In Kalaki P/S there are 800 pupils. If 45% are boys, how many girls are in Kalaki P/S? (02 marks)
24.	a) The median of seven consecutive integers is -8. Find the range of integers. (03 marks)	b) The average of 3, 0, 7 and $r$ is 4. What is the value of $r$ ? (03 marks)

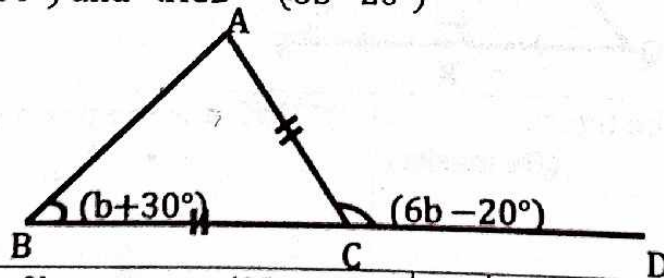


25.	The total mass of tins of honey in a box is 3.25kg. If the mass of each tin is 250g, find the number of tins in the box. (04 marks)
26.	Using a ruler, pencil and a pair of compasses, construct triangle PQR such that $PR = 7.5\text{cm}$ , angle $P = 66^\circ$ , angle $Q = 60^\circ$ . Measure line QR. (05 marks)
27.	<p>Given that <math>PS = PQ = 10\text{cm}</math>, <math>PR = 6\text{cm}</math> and bisects angle P.</p> 
a)	Calculate the area of the figure. (04 marks)
b)	What is the perimeter of the figure? (02 marks)

28. The bill below was prepared by Mugalu to buy items from a shop. Study it carefully and find missing parts. (05 marks)

ITEM	QUANTITY	UNIT COST	TOTAL
Rice	3Kg	Shs. 4,500	Shs. _____
Meat	2 ½ Kg	Shs. _____	Shs. 35,000
Sugar	_____ kg	Shs. 4,000	Sh. 24,000
Bananas	_____ bunch	Shs. 8,000	Shs. 56,000
		Total Expenditure	Shs. _____

29. ABC is an Isosceles triangle in which  $AC = BC$ .  
 $\angle ABC = (b + 30^\circ)$  and  $\angle ACD = (6b - 20^\circ)$



- a) Find the value of b (02 marks)      b) What is the size of angle ACB. (02 marks)



30.	A teacher had some mangoes, when he shared them among 8 pupils, 5 mangoes remained and when he shared them equally among 7 pupils, only 3 mangoes remained. How many mangoes were counted?  		
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32. Use the table showing arrival and departure time to answer the questions that follow.

TOWN	ARRIVAL	DEPARTURE
Mbarara		0845h
Lyantonde	0930h	0935h
Masaka	1000h	1015h
Lukaya	1045h	1055h
Kampala	1215h	

a) How long did the bus take to travel from Lyantonde to Kampala. (02 marks)

b) For how long did the bus stay at Lukaya? (01 mark)

c) If the distance between Mbarara and Kampala is 252km, calculate the average speed of the bus for the time it spent traveling. (02 marks)

★★ Success ★★