Candidate Name	School Name

JUNIOR SECONDARY SEMI - EXTERNAL EXAMINATION

MATHEMATICS 2200/1

PAPER 1 (Short Questions) 1 hour

Marks 45 2018

No Additional Materials needed.

INSTRUCTIONS AND INFORMATION TO CANDIDATES

- Write your Candidate Name and School Name in the spaces on top of this page.
- · Write your answers on the Question Paper.
- · All working must be shown clearly.
- · Write in dark blue or black pen.
- You may use a soft pencil for any rough work, diagrams or graphs.
- · Do not use correction fluid.
- Do not write in the margin For Examiner's Use.
- Answer all questions.
- You may NOT use a calculator.
- If an answer is not exact, it should be rounded to **one** decimal place and for money give your answer to **two** decimal places.
- The number of marks is given in brackets [] at the end of each question or part question.

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Marker

Checker

This document consists of **10** printed pages.



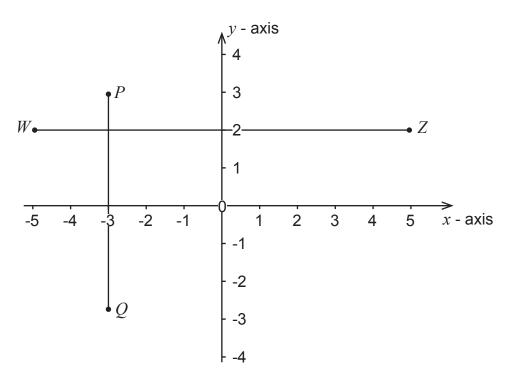
Republic of Namibia

MINISTRY OF EDUCATION, ARTS AND CULTURE

1	Calculate 3 + 5 × 2.	
	Answer	[1]
2	Arrange the following numbers in ascending order.	
	3.12; 3.05; 3.123; 3.04.	
	Answer<	[1]
3	Round 9.4992 correct to two decimal places.	
	Answer	[1]
4	The ratio of sheep to goats in a kraal is 2 : 3 respectively.	
	If there are 15 goats, calculate the number of sheep in the kraal.	
	Answer	[2]
5	Given 215 ÷ 19. (a) Round each given number above correct to one significant figures.	
	Answer (a)÷	[2]
	(b) Ose your answer to (a) to find the estimated answer.	
	Answer (b)	[1]
6	Write down the base in a^n .	
	Answer	[1]
7	List all the factors of 21.	
	Answer	[1]

8	On a winter day, the temperature at noon was 10°C. At midnight, it had fallen by 12°C.				
	Calculate the temperature at midnight.				
		Answer°C	[2]		
9	The number 225 can be written as a produ Use $5^2 \times 3^2$ to determine the square root of				
		Answer	[1]		
10	Kudumo bought a calculator for N\$150.00 N\$180.00. (a) Calculate his profit.	. Later, he sold it to his friend for			
	(b) Express his profit as a percentage of	Answer (a) N\$the cost price.	[1]		
		Answer (b) %	[2]		
11	Convert 3.5 ha to m ² .				
		Answer m ²	[1]		

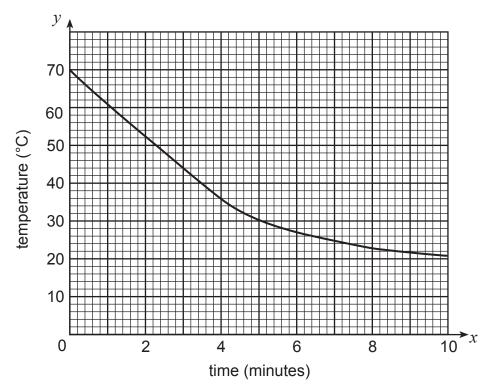
12 Line PQ and WZ are drawn on the grid below.



Write down the coordinates of the point of intersection of line PQ and WZ.

Answer (.....) [2]

13 The graph shows the change in temperature of tea after it has been poured into a cup.

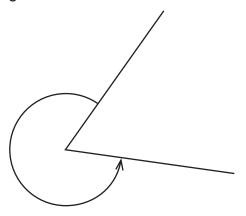


Use the graph to answer the following questions.

(a) What was the temperature of the tea after 5 minutes?

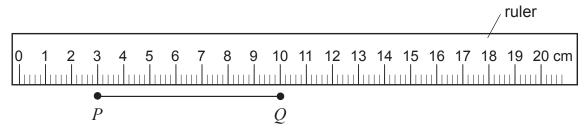
(b) How long did it take for the tea to cool down to 45°C?

14 (a) Name the type of angle shown.



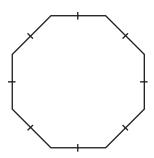
Answer (a)[1]

(b) Use the ruler below and write down the length of line PQ.



Answer **(b)** [1]

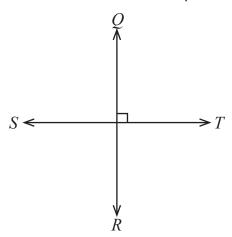
15 Give the name of the polygon shown below.



Answer.....[1]

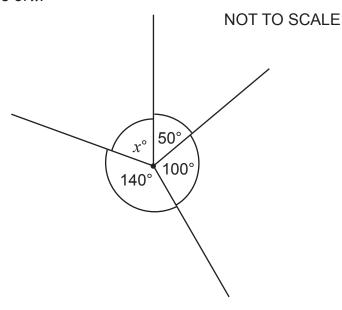
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16 Use the mathematical term to show the relationship between line ST and QR.



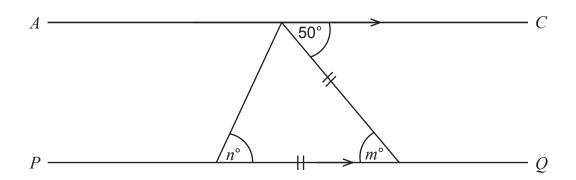
Answer [1]

17 Calculate the value of x.



Answer $x = \dots ^{\circ}$ [2]

18 In the diagram line AC is parallel to line PQ.



Calculate the value of

(a) m,

Answer (a)
$$m =$$
° [1]

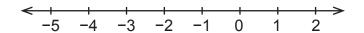
(b) *n*.

Answer **(b)**
$$n = \dots ^{\circ}$$
 [2]

19 Write an algebraic expression for the sum of 4 and y.

20 Given that x = 3 and y = -2, find the value of 5x - 2y.

21 Represent x > -2 on the number line below.



[1]

9

22 Simplify

$$7x + 3y - 4x - y$$

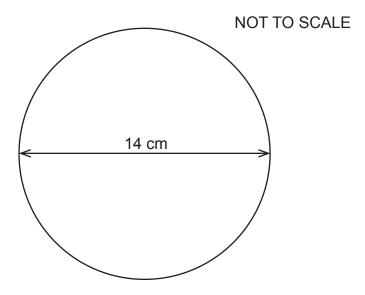
Answer[2]

23 Work out

$$4a (2a - 3b).$$

Answer[2]

24 The diameter of the circle is 14 cm.



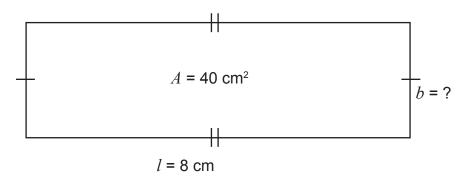
Calculate the circumference of the circle.

Use
$$\pi = \frac{22}{7}$$
.

Answer [2]

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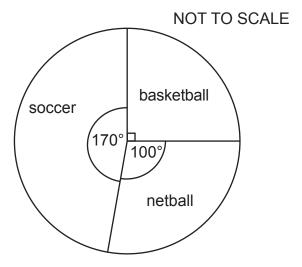
25 The area of the rectangle shown below is 40 cm² and its length is 8 cm.



Calculate the breadth, *b*.

Answer
$$b =$$
 [2]

26 The pie chart shows favourite sport codes of 36 learners in a class.



Calculate the number of learners whose favourite sport code is basketball.

Answerlearners	[2]
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27 Two strawberries, four oranges and one apple are placed in a box. One fruit is taken at random from the box.
Find the probability that the fruit is an orange.

Answer.....[1]