

EXAMINATIONS COUNCIL OF ESWATINI Eswatini General Certificate of Secondary Education

CANDIDATE NAME				
CENTRE NUMBER	CANDIDAT NUMBER	E		
MATHEMATICS		6880/01		
Paper 1 Non-C	alculator Short Answer Questions (Core and Extended)	October/November 2020		
Candidates answer on the Question Paper. 1 hour 30 minutes				
Additional Mater	als: Geometrical instruments Tracing paper (optional)			

## **READ THESE INSTRUCTIONS FIRST**

Write your Centre number, candidate number and name on the spaces provided.Write in dark blue or black pen in the spaces provided on the Question Paper.You may use an HB pencil for any diagrams or graphs.Do **not** use staples, paper clips, highlighters, glue or correction fluid.You are **not** allowed to use a calculator.

Answer all questions.

If working is needed for any question it must be shown below that question. The number of marks is given in brackets [] at the end of each question **or** part question.

If the degree of accuracy is not specified in the question, and if the answer is not exact, give the answer to three significant figures. Give answers in degrees to one decimal place.

The total of the marks for this paper is 60.

For Examiner's Use			
1			
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19			
Total			

This document consists of **12** printed pages.

	2		For Examiner's
1	Round 214.46 correct to		Use
	(a) one decimal place,		
		Answer (a) [1]	
	(b) the nearest 30.		
		(	
		Answer (b) [1]	
2	Evaluate $\sqrt{6^2 + 4^3}$ .		
		4 mm you 0/ [2]	
		Answer% [2]	
3	Express 56 mm as a percentage of 800 mm.		
		Answer	
4	Solve the equation.		
	3(2x-4) = 42		
		Answer $x = \dots [2]$	
			1

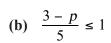
	3	For Examiner's
5	Write the following numbers in order of size, starting with the smallest.	Use
	$-\frac{5}{4}$ , -1, 2, -10, $-\frac{4}{5}$	
	4, , , , 5	
	( <i>usuum</i> [0]	
	Answer	
6	You are given that $f(x) = 5x - 7$ .	
	(a) Evaluate $f(2)$ .	
	Answer (a) $f(2)$	
	(b) Find an expression for $f^{-1}(x)$ .	
	Answer (b) $f^{-1}(x)$	
7	Write the next two numbers of this sequence.	
	1, 3, 6, 10,	
	<i>Answer</i> , [2]	

8 Express the number 0.000451 in standard form.

9 Solve the following.

(a) 
$$x^2 - 9x = 0$$

Answer (a)  $x = \dots$  [2]



	5	For Examiner's
10	Work out	Use
	(a) $0.0375 \times 100$ ,	
	Answer (a) [1]	
	<b>(b)</b> $0.885 + 0.0045$ ,	
	Answer (b)	
	(c) $\frac{3}{7} - \frac{1}{5}$ .	
	Answer (c)	
11	Make <i>t</i> the subject of the equation.	
	a(t-b) = 2y	
	<i>Answer</i> $t =$	

## 12 Janie buys a jacket.

The price of the jacket is E800.

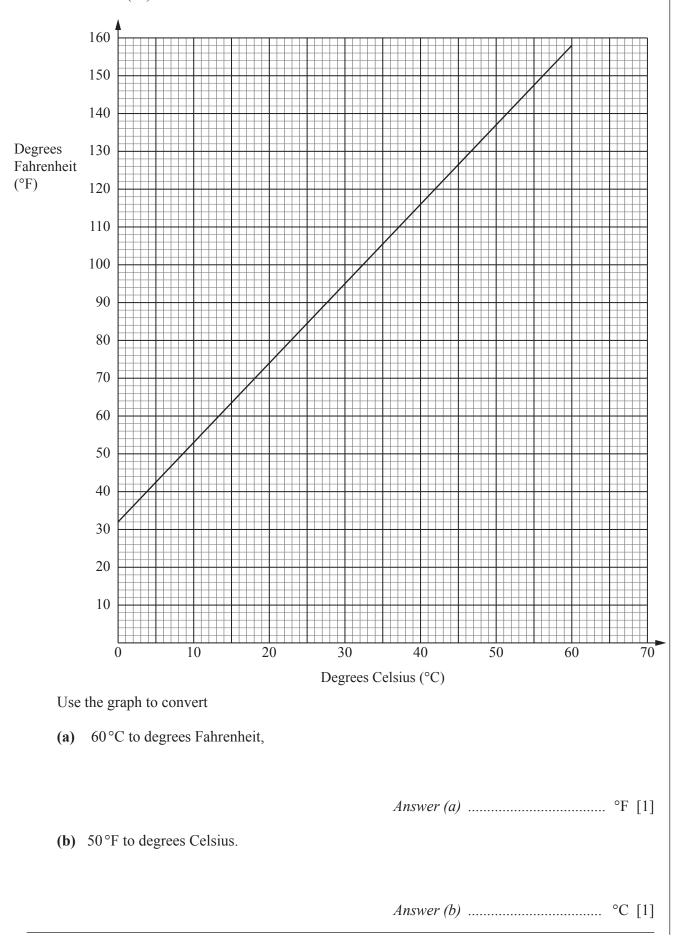
Value added tax (V.A.T.) is charged at a rate of 14% of the price.

Calculate the total amount of money Janie would pay for the jacket.

*Answer* E ..... [2]

**13** Simplify the following.

$$\frac{24x^5}{y^2} \div \frac{8x^2}{y^3}$$



14 The graph shows the conversion of temperatures between degrees Celsius (°C) and degrees Fahrenheit (°F)

7

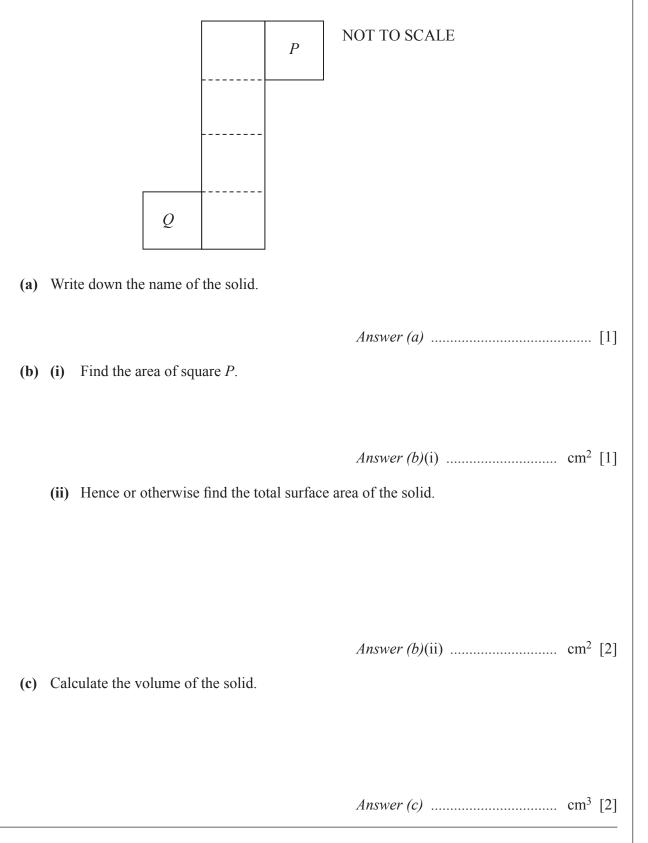
[Turn over

15 The diagram shows the net of a solid.

Faces P and Q are squares.

The sides of P and Q are 4 cm long.

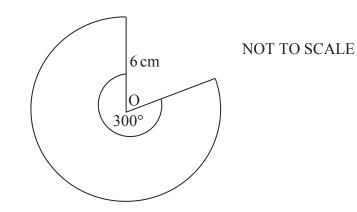
The width of the rectangle is 5 cm.



16 The diagram shows a sector of radius 6 cm.

The sector angle is 300°.

For  $\pi$  use 3.142.



(a) Write the fraction of the circle that was removed.

Answer (a) ......[1]

(b) Find the length of the major arc.

(c) Find the perimeter of the sector.

- Answer (b) ..... cm [2]
  - Answer (c) ..... cm [1]

Blue

Black

*Answer (b)* .....° [2]

Green

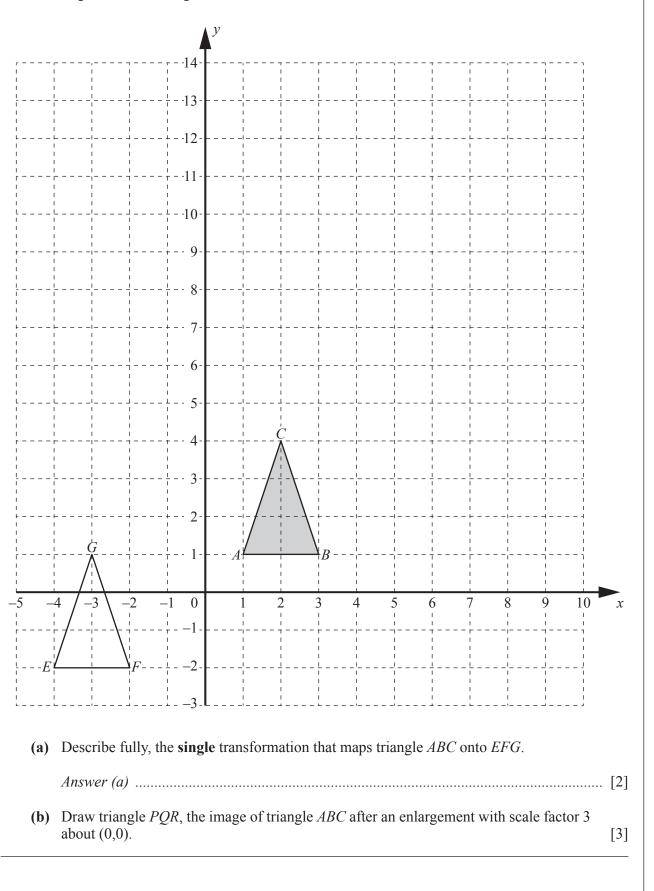
- 17 The table shows the favourite colours of 60 learners in a Form 1 class.

Red

Yellow

Colour

**18** The diagram shows triangles *ABC* and *EFG*.



- **19** Triangle *XYZ* is such that XY = 9 cm, YZ = 7 cm and XZ = 5 cm.
  - (a) Using a ruler and a pair of compasses only, construct triangle *XYZ* accurately.

[3]

(b) Measure and write down the size of angle *XZY*.

*Answer (b)* .....° [1]

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