

## **INFORMATION FOR CANDIDATES**

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- The number of marks is given in brackets [ ] at the end of each question or part question.
- The total number of marks for this Section is 25.
- Section B starts with question 7.
- You are expected to use a calculator in Section B of this paper.
- Use the  $\pi$  button on your calculator or take  $\pi$  to be 3.142 unless the question says otherwise.

FOR EXAMI	NER'S USE
SECTION B	

	This document consists of <b>8</b> printed pages.		
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[Turn over



Area of trapezium =  $\frac{1}{2}(a + b)h$ 

**Volume of prism** = (area of cross-section) × length

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7 Calculate.

 $\frac{6{\cdot}9-4{\cdot}15}{2{\cdot}8-1{\cdot}75}$ 

Give your answer correct to one decimal place.

.....[2]

8 A dealer sells used cars. This scatter diagram shows the price and the mileage for some of the cars he sells. All these cars are the same model.

20000 15000 × × × Price (£) × × × 10000 × × × 5000 0 0 5000 10000 15000 20000 Mileage

(a) Draw a line of best fit for these data.

(b) Use your line of best fit to estimate the price for a car of this model which has done 8000 miles.

(c) Give a reason why the dealer may ask a lower price for this car than your estimate in part (b).

.....[1]

[1]

9 (a) Complete this table for y = 8 - 2x.

x	0	2	4	6
у		4		

## (b) Draw the graph of y = 8 - 2x.



[2]

3

[1]

10 Jan uses 2.5 litres of paint to cover an area of  $80 \text{ m}^2$ .

Jan needs to paint an area of  $440 \text{ m}^2$ .

How many litres of paint does she need?

11 (a) A gardener planted 600 red tulips and 240 yellow tulips.

Work out the ratio of red to yellow tulips. Give your answer in its simplest form.

(**a**).....[2]

.....[3]

3

(b) He also planted some crocus bulbs and daffodil bulbs.

The ratio of crocus bulbs to daffodil bulbs is 1 : 5. He planted 420 bulbs altogether.

How many crocus bulbs did he plant?



4



Calculate the area of this trapezium. Give the units of your answer.

(a).....[3]

**(b)** 



The diameter of this wheel is 120 cm.

Calculate the circumference of the wheel.

(**b**) ..... cm [2]





In the diagram, AB = AC and BCD is a straight line.

Work out angle *x*. Give a reason for each step of your answer.

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