

- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Show your working. Marks may be given for a correct method even if the answer is incorrect.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- Write your answer to each question in the space provided.

## INFORMATION FOR CANDIDATES

- 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.



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[Turn over

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#### **Formulae Sheet**







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

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1 (a) Calculate.

 $6 + 4 \times 2$ 

(**a**) ......[1]

### (b) Calculate the following.

(i)  $0.3 \times 0.6$ 

Give your answer as a decimal.

(ii)  $\frac{30}{0.6}$ 

(ii) .....[2]

**2** Jenny buys 3 scarves at  $\pounds$ 7.55 each and a bracelet for  $\pounds$ 3.95.

How much change should she get from  $\pounds 30$ ?

£.....[3]

3 Work out.

$$\frac{4}{5}-\frac{3}{4}$$

Give your answer as a fraction.

.....[2]

	4	
4		
	-	



Find angles *a* and *b*. Give your reasons.

<i>a</i> =° because	
	[2]
$b = \dots^{\circ}$ because	
	[2]
	[2]

**5** This scatter diagram shows the height and foot length of each of ten boys.



(a) How does the scatter diagram show that there is positive correlation between height and foot length?

 	 [1]

- (b) Draw a line of best fit on the diagram.
- (c) Another boy's height is 165 cm.

Use your line of best fit to estimate his foot length.

(**c**) ..... cm [1]

[1]

**6** Here is a sketch of a triangle.



Use ruler, protractor and compasses to construct this triangle accurately. The 6.4 cm side has been drawn for you. Leave in your construction lines.

[3]

6.4 cm

# **TURN OVER FOR QUESTION 7**

7 (a) Find the value of 4 - 2x when x = -3.

(a) .....[1]

(b) Solve these equations.

(i) 2x - 3 = 8

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

(ii) 3x + 7 = x + 1

(ii) ......[3]