

- 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.



This document consists of **8** printed pages.

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[Turn over





#### **Formulae Sheet**



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



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

### PLEASE DO NOT WRITE ON THIS PAGE

1 Paul did a survey to find out where people would like to go for a holiday.

His results are shown in this table.

Place	Greece	Spain	USA	Caribbean	UK	
Number of people	5	3	8	6	3	

Draw a bar chart to represent this information.



[3]

2 Junaid is playing a game with these cards.

He picks one card without looking.

(a) Which number is Junaid **most likely** to pick?

(b) What is the probability that he picks a 4?

**(b)** ......[1]

(c) What is the probability that he picks a 2?

3	(a)	Three storage boxes are piled on top of each other. Each box is $0.4 \text{ m}$ high.	
		Work out the <b>total</b> height of the pile.	
			(a) m [2]
	<b>(b)</b>	Ten of these boxes cost £15.	
		What is the cost of one box?	
			( <b>b</b> ) £
4	Sol	ve.	
		2 + x = 12	
			( <b>a</b> )[1]
	(b)	3x = 27	
			( <b>b</b> )[1]
	( <b>c</b> )	x - 7 = 9	
			(c)[1]

- 5 Mr McKenzie is organising a class trip to a museum.
  - (a) There are 30 students in his class.20% of the students have not yet paid for the trip.

How many students have not yet paid?

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

(b) They must arrive at the museum at 10:45 am. The journey to the museum takes 30 minutes.

At what time must they leave school?

**(b)** ......[1]

(c) This is the plan for their activities at the museum.

Exhibition	1 hour
Film show	45 minutes
Lunch	30 minutes
Workshop	1 hour 30 minutes

(i) How long do the activities last altogether? Give your answer in hours and minutes.

(c)(i) ..... hours ..... minutes [2]

(ii) The activities will start at 11:00 am.

At what time will the activities finish?

(**ii**) ......[1]

6 A bag contains 200 cubes.

 $\frac{1}{4}$  of the cubes are blue.  $\frac{3}{10}$  of the cubes are red.

The rest of the cubes are green.

How many of the cubes are green?

.....[3]

# **TURN OVER FOR QUESTION 7**

#### 7 (a) Moira has tried to draw an enlargement of shape A with scale factor 2. Her enlargement is not correct.

Α					

Explain why her enlargement is not correct.

.....[1]

(b) Draw an enlargement of shape **B** on the grid below. Use a scale factor of 3.

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