

# Test 9

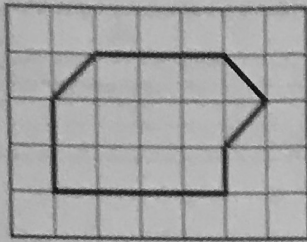
You have 10 minutes to complete this test.

You have 10 questions to complete within the given time.



Circle the letter next to the correct answer.

- ① This grid is formed from 1 cm squares.



What is the area of the shape drawn on the grid?

A	B	C	D	E
12 cm <sup>2</sup>	15 cm <sup>2</sup>	10 cm <sup>2</sup>	12.5 cm <sup>2</sup>	11.5 cm <sup>2</sup>

- ② The first term in a sequence is between 3 and 10. Each term in the sequence is 7 greater than the previous term.

If one of the terms in the sequence is 25, what is the first term in the sequence?

A	B	C	D	E
4	5	6	7	9

- ③ Which of the following does not have the same value as the others?

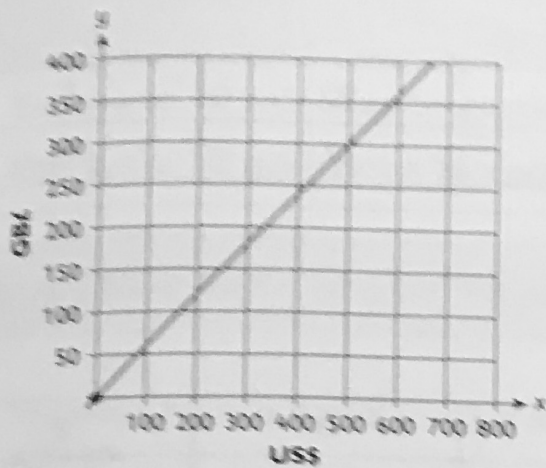
A	B	C	D	E
$1.2 \times 4$	$0.48 \times 10$	$\frac{480}{100}$	$0.6 \times 0.8$	$4 \times 0.4 \times 3$

- ④ The ratio of the number of cars to the number of motorbikes in a car park is 15:2.

If there are a total of 270 cars, how many motorbikes are there?

A	B	C	D	E
36	18	17	135	330

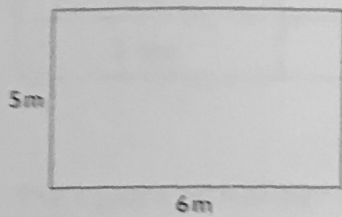
5 This graph shows the conversion rate between £ and \$.



Josh spent \$1000 during his holiday. How much is this in £?

A	B	C	D	E
£250	£400	£300	£100	£600

6 How many small square tiles of side 50 cm are needed to fully cover a surface which is 5 m wide and 6 m long?



A	B	C	D	E
100	120	30	300	250

7 The first four terms in a sequence of dots are shown below.



Which of the following is not the number of dots in one of the terms in this sequence?

A	B	C	D	E
15	20	21	28	36

Questions continue on next page

- 8 95% of a group of 140 runners participated in a marathon.

How many runners didn't participate in the marathon?

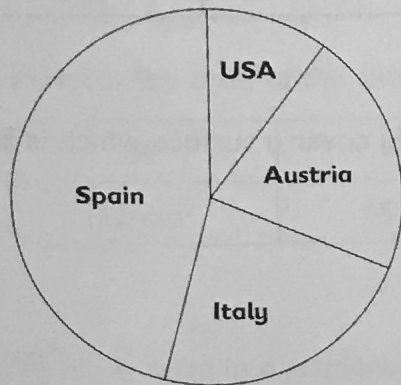
A	B	C	D	E
9	14	133	7	10

- 9 A rectangle 5.5 cm wide has an area of  $49.5 \text{ cm}^2$ .

What is the length of the rectangle?

A	B	C	D	E
4 cm	10 cm	9 cm	11 cm	13 cm

- 10 This pie chart shows the country of origin of the students at a university.



From which country do roughly 10% of the students originate?

A	Italy
B	Austria
C	USA
D	Spain
E	None of the above