THE TRANSFER TEST

GL

Practice Test

Maths Paper 3

Time: 45 minutes

This test must not be copied.

1 Look at the five statements below.

a + 10 = 23

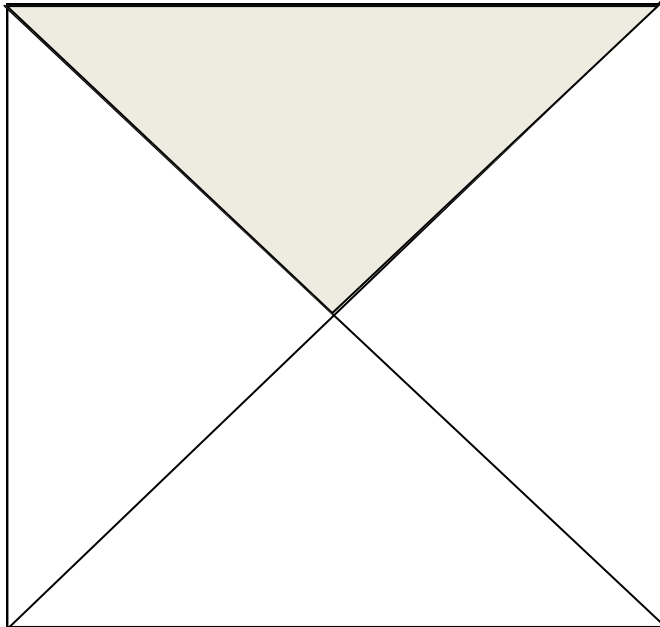b x 2 = 28

c –6 = 9

d ÷ 3 = 4

e + 8 = 24

Which letter has the smallest value?

A b   **B** c   **C** d   **D** e   **E** a

2 Look at the square below. The area of the shaded triangle is 4 cm^2.

What is the area of the square?

A 8cm^2 **B** 1cm^2 **C** 20cm^2 **D** 16cm^2 **E** 32cm^2

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3 Five types of bottles are used to store water.

Bottle 1 holds 1.32 litres.

Bottle 2 holds 945 ml.

Bottle 3 holds 1.8 litres.

Bottle 4 holds 1257 ml.

Bottle 5 holds 1.41 litres.

Which bottle holds the greatest amount of water?

A Bottle 1   **B** Bottle 2   **C** Bottle 3   **D** Bottle 4   **E** Bottle 5
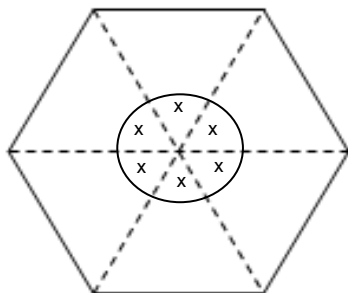
4 **Which bottle holds the smallest amount of water?**

A Bottle 1   **B** Bottle 2   **C** Bottle 3   **D** Bottle 4   **E** Bottle 5

5 Look at the hexagon below. There are 6 equal angles drawn at the centre of the hexagon. Each angle is x^o.

What is the value of x?

A 65° **B** 55° **C** 50° **D** 70° **E** 60°

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6 The pairs of fractions below are equivalent fractions.

$$\frac{2}{\boxed{x}} = \frac{4}{16}$$

What is the value of x?

A 8   **B** 32   **C** 4   **D** 12   **E** 2

7

$$\frac{\boxed{y}}{3} = \frac{6}{9}$$

What is the value of y?

A 6   **B** 1   **C** 3   **D** 2   **E** 9

8 Here are the scores of five pupils in a test.

Ben	35 marks
Ryan	45 marks
Joshua	55 marks
Lucy	30 marks
Hannah	40 marks

What is the mean (average) mark for the pupils?

A 39   **B** 41   **C** 43   **D** 40   **E** 42

9 Look again at the marks.

What is the range for these marks?

A 25   **B** 15   **C** 5   **D** 10   **E** 20

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10 Look at the function machine below.
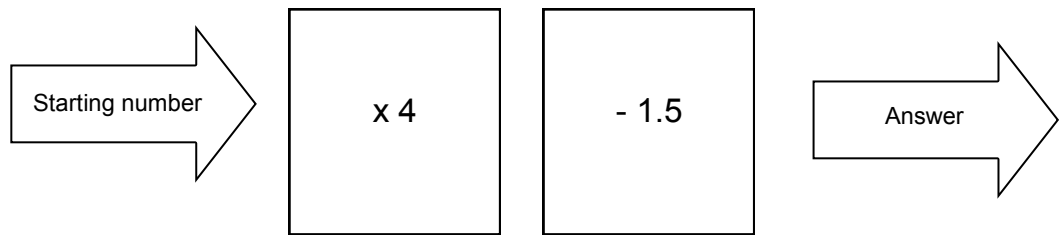
What answer does the function machine give when the starting number is 7?

A 9.5   **B** 10.5   **C** 26.5   **D** 27.5   **E** 29.5

11 **What answer does the function machine give when the starting number is 4.5?**

A 19.5   **B** 3.4   **C** 14.5   **D** 16.5   **E** 7

12 A train travels 3 kilometres. A second train travels 47 metres further.

How far does the second train travel?

A 3.47km   **B** 3.47m   **C** 50m   **D** 3047m   **E** 50km

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13 Find the missing number in the calculation below.

| ? | x 7 = 6.3

What number goes in the box to complete the calculation?

A 44.1 **B** 43.1 **C** 0.8 **D** 0.7 **E** 0.9

14 Jade uses her calculator to carry out the following calculation:

140 x 3.4 = 476

Which of the calculations below also gives the answer 476?

A 140 x 34
B 140 x 0.34
C 1.4 x 340
D 140 x 340
E 14 x 340

15 A coat costs £95. It is reduced in price by 10% in a sale.

What is the price of the coat in the sale?
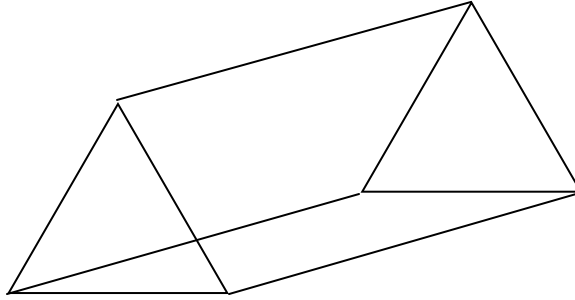
A £9.50 **B** £85.00 **C** £85.50 **D** £10.00 **E** £86.00

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16 Look at the triangular prism below.

The triangular prism has how many vertices?

A 8   **B** 3   **C** 9   **D** 5   **E** 6

17 **The triangular prism has how many faces?**

A 8   **B** 3   **C** 9   **D** 5   **E** 6

18 Look at this calculation.   2345.6 ÷ 100 = __?__

What is the answer to the calculation?

A 0.23456   **B** 2.3456   **C** 23.456   **D** 234.56   **E** 2345.6

19 A teacher is photocopying some busy sheets.
The cost of 100 photocopies is £7.

What is the cost of 700 photocopies?

A £700   **B** £49   **C** £70   **D** £4.90   **E** £4900

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20 A bag contains 20 cubes. There are 10 yellow cubes, 5 white cubes and 5 green cubes. It is not possible to see into the bag.

Look at the probability line below. The letters A, B, C, D and E show equally spaced positions on the probability line.

Impossible   Certain

1   2   3   4   5
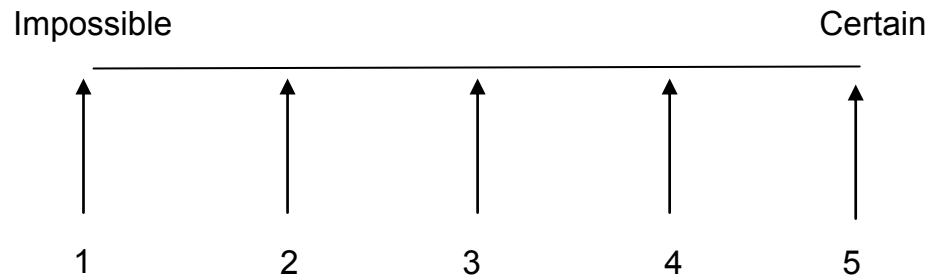
A pupil puts her hand in the bag and chooses a cube.

Which arrow shows the probability that a yellow cube is chosen?

A 1   **B** 2   **C** 3   **D** 4   **E** 5

21 **Which arrow shows the probability that a white cube is chosen?**

A 1   **B** 2   **C** 3   **D** 4   **E** 5

22 **Which arrow shows the probability that a white cube isn't chosen?**

A 1   **B** 2   **C** 3   **D** 4   **E** 5

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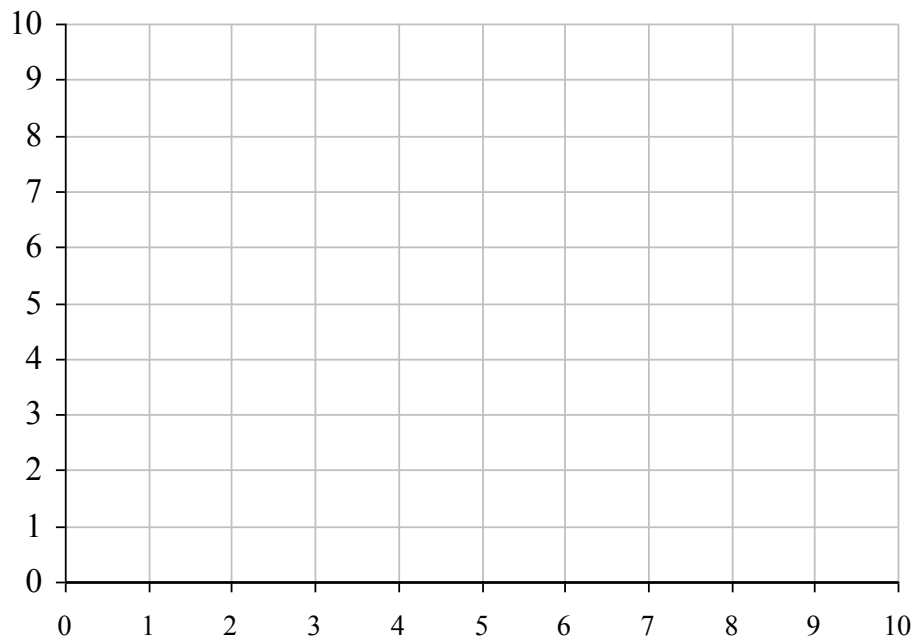
23 Look at the number below.

7.32

What is the value of the 3 digit in this number?

A three hundreds

B three tens

C three units

D three tenths

E three hundredths

24 Look at the grid below.

Plot the points (1, 5), (7, 5) and (7, 1) on the grid. When a fourth point is added to the grid, the four points can be joined to form a rectangle.
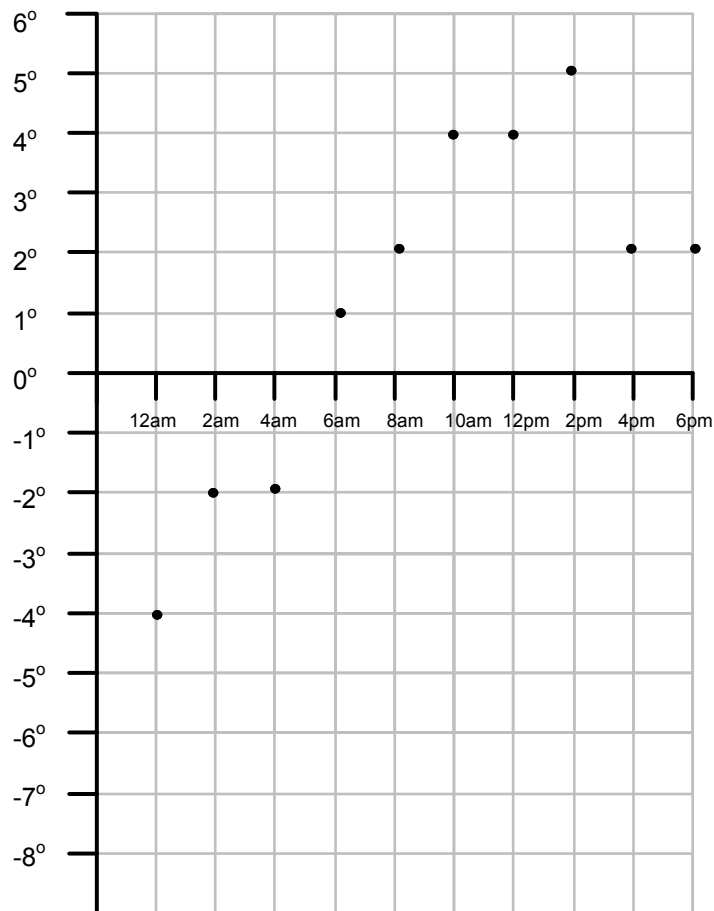
What are the coordinates of the fourth point that forms the rectangle?

A (1, 1)   **B** (5, 1)   **C** (5, 7)   **D** (1, 7)   **E** (5, 5)

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25 The temperature in a winter garden is recorded every two hours for an 18 hour period. The results are shown on the graph below.

What is the difference between the highest and lowest temperature recorded?

A 11°C   **B** 10°C   **C** 9°C   **D** 8°C   **E** 18°C

26 Below is a calculation.

5^2 - 10 = ?

What is the correct number that completes this calculation?

A 20   **B** 0   **C** 35   **D** 25   **E** 15

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27 Bobby has three homeworks to do for Friday. He spends 25 minutes on his Maths homework. He spends 1 $\frac{1}{4}$ hours on his English homework. He spends 45 minutes on his Science homework.

How much time does Bobby spend altogether on his 3 homeworks?

A 1 hours and 45 minutes

B 3 hours and 5 minutes

C 3 hours and 4 minutes

D 2 hours and 35 minutes

E 2 hours and 25 minutes

28 Sasha uses her calculator to carry out the calculation:
19.4 x 3.2 = 62.08

Which calculation below also gives the answer 62.08?

A 1.94 x 320

B 19.4 x 32

C 1.94 x 32

D 1.94 x 3.2

E 194 x 3.2

29 Jason thinks of 2 consecutive numbers. When he adds the numbers he gets 13. When he multiplies the numbers he gets 42.

What are the two numbers Jason thinks of?

A 5 and 8   **B** 6 and 7   **C** 2 and 24   **D** 4 and 9   **E** 3 and 10

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30 Look at the two numbers below.

0.7   0.67

What is the answer when you multiply the larger of the two numbers by 100?

A 70   **B** 6.7   **C** 700   **D** 67   **E** 670

31 A film on TV lasts for 100 minutes. It finishes at 00:15.

At what time did the film start?

A 11:15pm   **B** 10:35am   **C** 22:35   **D** 10:20pm   **E** 22:05

32 Russell has to fill pots with compost from a container. The container holds $2\frac{1}{4}$ kg of compost . Each pot holds $\frac{1}{4}$ kg of compost .

How many full pots of compost can Russell get from the container?

A 3 pots   **B** 2 pots   **C** 8 pots   **D** 9 pots   **E** 7 pots

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33 Below is a calculation.

$4^2 + 12 = ?$

What is the correct number that completes this calculation?

A 76   **B** 32   **C** 54   **D** 20   **E** 28

34 In an ice skating competition Ben has to skate 20 times. Each performance is scored out of 10 marks. In the box below are the marks awarded to Ben by one of the judges.

5	2	8	9	3
4	4	5	6	1
2	5	8	6	8
1	7	7	5	8

How frequently did Ben get scored 1-3 marks?

A 7   **B** 3   **C** 6   **D** 4   **E** 5

35 **How frequently did Ben get scored 4-6 marks?**

A 7   **B** 8   **C** 9   **D** 4   **E** 6

36 **How frequently did Ben get scored 7-9 marks?**

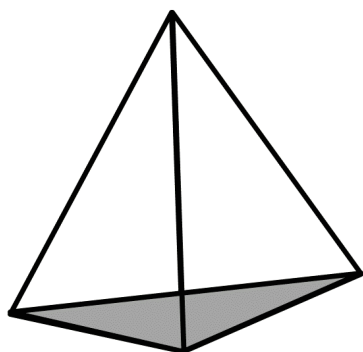**A** 7   **B** 6   **C** 3   **D** 8   **E** 5

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37 The temperature in Malaga is 17°C and the temperature in Kiev is - 7°C.

What is the difference between the two temperatures?

A 10 °C   **B** 23 °C   **C** 11 °C   **D** 24 °C   **E** 25 °C

38 Look at the triangular based pyramid below.

The triangular based pyramid has how many vertices?

A 3   **B** 4   **C** 6   **D** 5   **E** 2

The triangular based pyramid has how many edges?

39 **A** 3   **B** 4   **C** 6   **D** 5   **E** 2

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40   **Which percentage has the same value as $^3/_4$?**

     A 34%   **B** 25%   **C** 43%   **D** 75%   **E** 7.5%

41   **Which fraction has the same value as 40%?**

     A $^1/_4$ **B** $^{10}/_{40}$ **C** $^2/_5$ **D** $^4/_{100}$ **E** $^4/_5$

42   **What is twenty three and one quarter as a decimal number?**

     A 23.14   **B** 23.4   **C** 20.34   **D** 23.5   **E** 23.25

43   **What is eight tenths as a decimal number?**

     A 80.0   **B** 8.0   **C** 0.8   **D** $^8/_{10}$ **E** 8.1

44   **What is seven and three fifths as a decimal number?**

     A 7.35   **B** 7 $^3/_5$ **C** 73.5   **D** 7.6   **E** 10.5

45   **Which amount has the same value as 0.6?**

     A $^3/_5$ **B** $^{10}/_6$ **C** $^2/_5$ **D** 6%   **E** 16%

END OF TEST

GL MATHS PAPER 3   ANSWER SHEET

1 C	**16** E	**31** C
2 D	**17** D	**32** D
3 C	**18** C	**33** E
4 B	**19** B	**34** E
5 E	**20** C	**35** B
6 A	**21** B	**36** A
7 D	**22** D	**37** D
8 B	**23** D	**38** B
9 A	**24** A	**39** C
10 C	**25** C	**40** D
11 D	**26** E	**41** C
12 D	**27** E	**42** E
13 E	**28** C	**43** C
14 C	**29** B	**44** D
15 C	**30** A	**45** A