

THE TRANSFER TEST

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Maths Multiple Choice

Practice Test
Paper 1

Time: 45 minutes

1

Which of the decimal numbers below is bigger than $3\frac{1}{3}$ and smaller than $3\frac{3}{4}$?

A 3.21

B 3.11

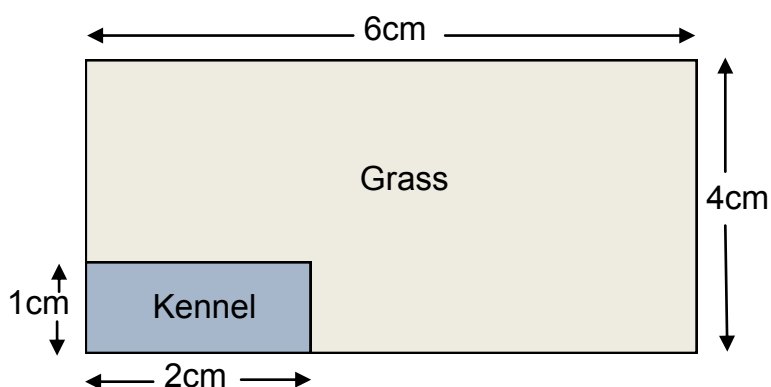
C 3.01

D 3.31

E 3.41

2

Look at the plan of a garden below. In one corner of the garden is a kennel. The garden and the kennel are both rectangular. The ground in the kennel is made of concrete. The garden is covered with grass.



On the plan: 1 centimetre represents 3 metres.

What is the area of the kennel on the plan?

A 24cm^2 B 2cm^2 C 216m^2 D 18m^2 D 22m^2

3

What is the actual perimeter of the part of the garden which is covered with grass?

A 22cm

B 66m

C 60m

D 20cm

E 18m

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4

Look at the five fractions below.

$\frac{3}{4}$

$\frac{1}{2}$

$\frac{1}{10}$

$\frac{1}{4}$

$\frac{1}{3}$

Clara writes these fractions in order from smallest to largest.

Which fraction will be the middle fraction when Clara writes them in order?

A $\frac{3}{4}$

B $\frac{1}{2}$

C $\frac{1}{10}$

D $\frac{1}{4}$

E $\frac{1}{3}$

5

A carton containing 1 litres of orange juice costs £2.00.

What is the cost of half a litre of orange juice?

A £0.50**B** £1.00**C** £1.50**D** £3.00**E** £4.00

6

What is the cost of orange juice for two litres?

A £0.50**B** £1.00**C** £1.50**D** £3.00**E** £4.00

7

The statements below are about three dimensional solid objects.

Which of these statements is correct?

A A cuboid has 6 vertices**B** A sphere has 1 edge**C** A cube has 8 faces**D** A triangular prism has 8 edges**E** A square based pyramid has 5 vertices

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8

Justin bought 5 items in a supermarket. His receipt is shown below. The price of the bacon has been torn off the receipt.

Bacon	
Milk	£0.45
Pancakes	£1.05
Juice	£0.79
Sausages	£3.73
Total	£6.87

How much was the bacon?

- A** £1.85 **B** £0.95 **C** £0.85 **D** £1.95 **E** £1.05

9

The temperature in Belfast is 10°C and the temperature in Moscow is - 6°C.

What is the difference between the two temperatures?

- A** 16°C **B** 4°C **C** 15°C **D** 17°C **E** 5°C

10

Look at the multiplication below:

$$2 \times 432 = 864$$

What is the answer to this calculation: $20 \times 432 = ?$

- A** 86.4 **B** 864 **C** 4320 **D** 8640 **E** 432

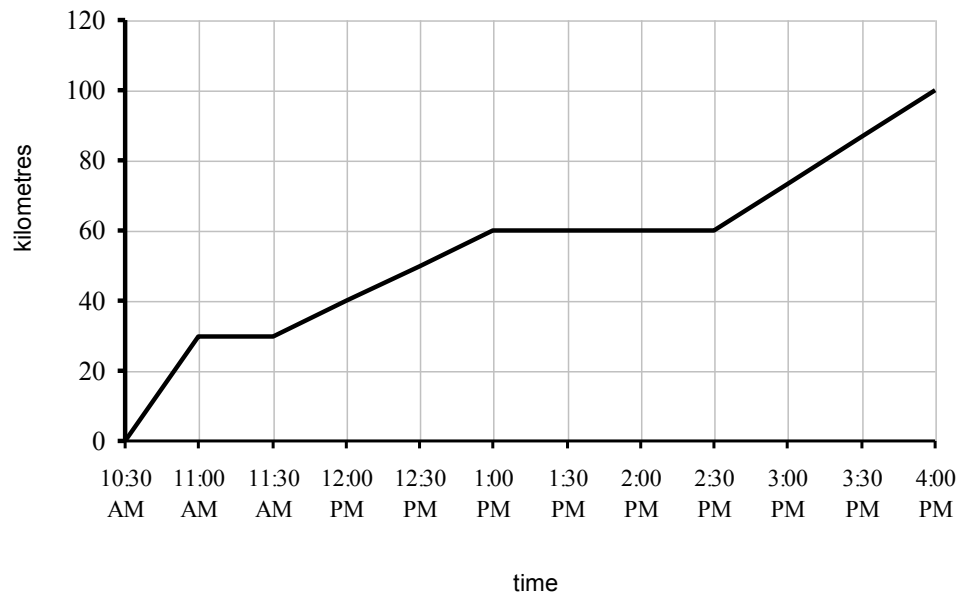
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11

The Beckett family are on holiday.

They start from their house and travel by car to visit some local parks.

Their journey is shown in the graph below.



How far have they travelled from their house at 13:00?

- A** 30 km **B** 75 km **C** 50 km **D** 60 km **E** 90 km

12

How long did the Beckett family stop for a morning snack?

- A** 90 mins **B** 60 mins **C** 3 hours **D** 30 mins **E** $\frac{1}{4}$ hour

13

Lexie takes 8 minutes to run 2000 metres at a steady speed.

How long would she take to run 1 kilometre at the same steady speed?

- A** 48 minutes **B** 4 minutes **C** 40 minutes **D** 16 minutes **E** 24 minutes

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14

Danielle is making shapes using square tiles.
The first three shapes are shown below.

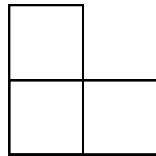
Shape 1 has 1 tile.

Shape 2 has 3 tiles.

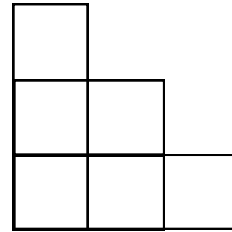
Shape 3 has 6 tiles.



Shape 1



Shape 2



Shape 3

How many tiles are there in Shape 4?

- A** 10 **B** 8 **C** 9 **D** 11 **E** 12

15

Look at the number of tiles in the first 3 shapes.

The number of tiles in each shape is called a “triangular number”.

The first 3 triangular numbers are 1, 3 and 6.

Now look at the 5 numbers below.

Which of these numbers are triangular numbers?

- A** 20 **B** 44 **C** 16 **D** 21 **E** 13

16

Isla is facing North. She turns anti-clockwise through 90° .

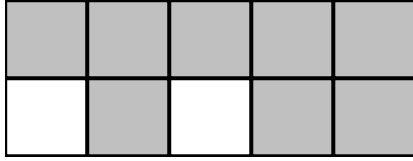
In which direction is she now facing?

- A** South **B** West **C** East **D** North-west **E** North-east

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17

The rectangle below is divided into squares of equal area.



What percentage of the rectangle is shaded?

- A 2% B 98% C 8% D 80% E 20%

18

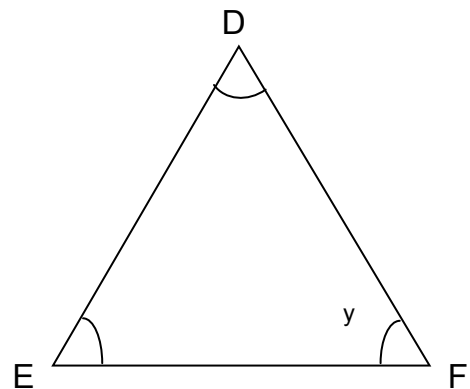
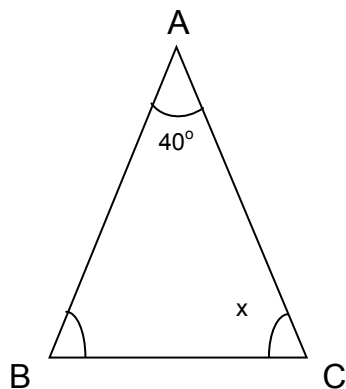
One tenth is the same as ? hundredths.

Which number in the box makes the statement true?

- A 1 B 10 C 100 D 1000 E 10000

19

Look at the 2 triangles below. The triangle ABC is isosceles. The sides AB and AC are the same length. The triangle DEF is equilateral.



By how many degrees is angle x greater than angle y?

- A 15° B 10° C 80° D 20° E 5°

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20

Look at the list of 7 numbers in the box.

45	29	14	6	25	21	15
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Which number is a factor of 24?

A 45 **B** 29 **C** 14 **D** 6 **E** 21

21

Which number is a multiple of 9?

A 45 **B** 29 **C** 25 **D** 6 **E** 15

22

Which number is a prime number?

A 45 **B** 29 **C** 14 **D** 6 **E** 15

23

Which number is a square number?

A 45 **B** 14 **C** 6 **D** 25 **E** 21

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24

A sheet of card is one millimetre thick.

Which statement is correct?

- A The thickness of the card is one tenth of a metre
- B The thickness of the card is one hundredth of a kilometre
- C The thickness of the card is one tenth of a centimetre
- D The thickness of the card is one hundredth of a centimetre
- E The thickness of the card is one hundredth of a metre

25

What is 3:51 am as a 24 hour clock time?

- A 05:51 B 15:51 C 13:51 D 03:51 E 17:51

26

What is 3:51 pm as a 24 hour clock time?

- A 05:51 B 15:51 C 13:51 D 03:51 E 17:51

27

Ross makes a sequence using this rule:

Half the previous number

_____, 208, 104, _____, 26, 13 ...

What are the missing numbers in Ross's sequence?

- A 416 and 54 B 316 and 52 C 416 and 56 D 318 and 52 E 416 and 52

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28

Look at the two numbers below.

0.3 0.24

What is the answer when you multiply the larger of the two numbers by 10?

A 2.4 B 0.03 C 24 D 30 E 3

29

What is 5:15pm as a 24 hour clock time?

A 05:15 B 5:15 C 15:15 D 13:15 E 17:15

30

What is $28 \div 10$?

A 280 B 2.8 C 0.28 D 28 E 0.028

31

What is 35×100 ?

A 0.35 B 3500 C 35 D 350 E 35000

32

What is 43.2×10 ?

A 4.32 B 430.2 C 432 D 0.432 E 40.32

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33

Flour costs £1.80 per kilogram.

How much would 500g cost?

A £0.18

B £9.00

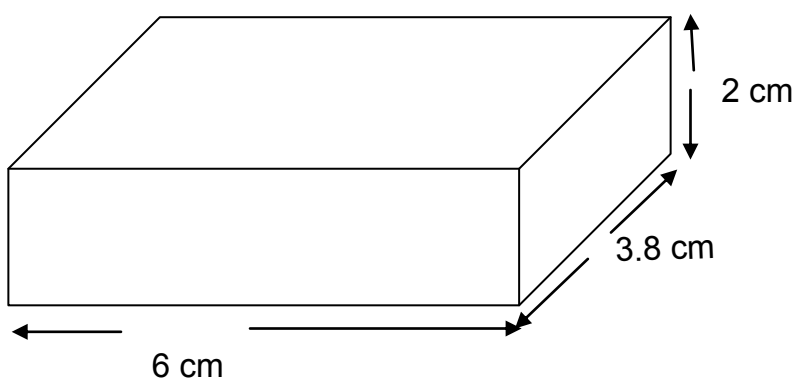
C £0.90

D £0.09

E £90.00

34

The cuboid below is 6 cm by 3.8 cm by 2 cm.



What is the volume of this cuboid?

A 40.6cm^3

B 41.6cm^3

C 39.6cm^3

D 45.6cm^3

E 43.6cm^3

35



$$\times 8 = 75.2$$

What decimal number should be in the box?

A 601.6

B 9.4

C 11.9

D 9.3

E 600.6

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36

A map has the following scale:

1 centimetre represents 8 kilometres.

The distance between 2 towns on the map is 6cm.

What is the actual distance between the 2 towns in kilometres?

A 48 km

B 14 km

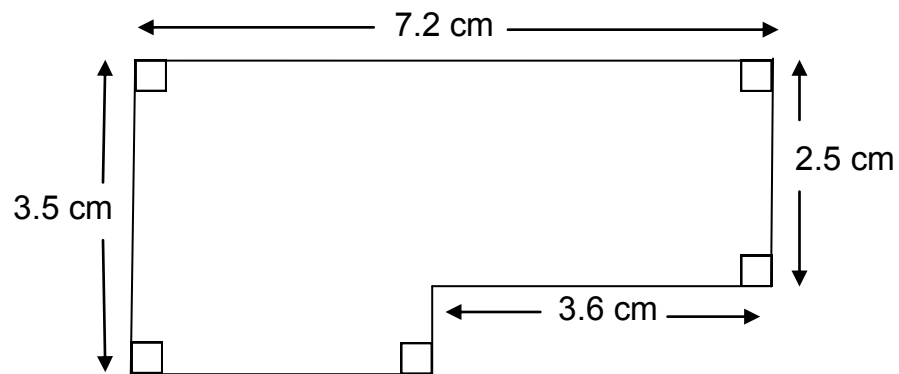
C 48 cm

D 14 cm

E $\frac{6}{8}$ km

37

Look at the shape below.



What is the perimeter of the shape?

A 16.8 cm

B 21.4 cm

C 15.8 cm

D 20.4 cm

E 20.5 cm

38

A number is made up of 7 units, 20 tens and 4 hundreds. Jason divides this number by 10.

What decimal number does Jason get?

A 0.31

B 42.7

C 427

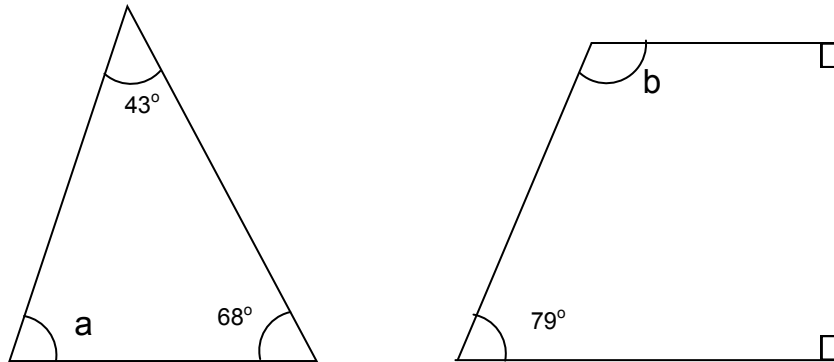
D 60.7

E 607

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39

Look at the triangle and quadrilateral below.



By how many degrees is angle b greater than angle a ?

- A 170° B 168° C 32° D 48° E 31°

40

Look at the calculation below.

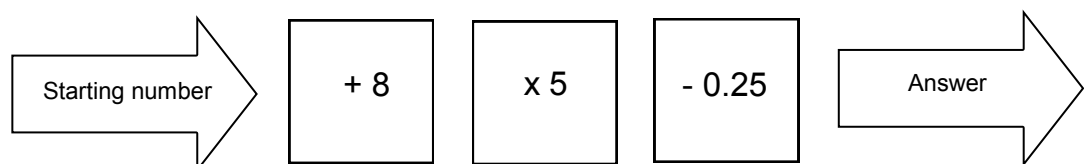
$$\underline{\quad ? \quad} + 146 = 827$$

What is the number that completes the calculation?

- A 681 B 973 C 721 D 963 E 873

41

Look at the function machine below.



What answer does the function machine give when the starting number is 13?

- A 104.75 B 109.75 C 99.75 D 105.25 E 102.5

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42

If $a = 6$, $b = 9$ and $c = 8$

$a^2 = ?$

- A 12 B 36 C 18 D 2 E 81

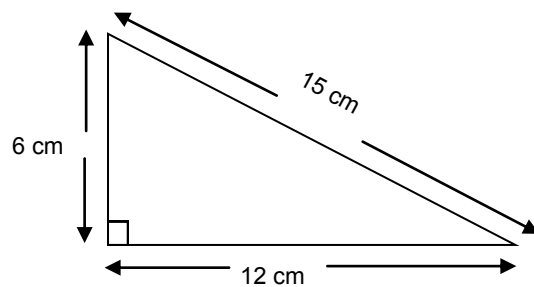
43

$b + c = ?$

- A 98 B 1 C 17 D 16 E 18

44

Look at the right-angled triangle below.



What is the perimeter of the triangle?

- A 72 cm B 36 cm C 33 cm D 23 cm E 32 cm

45

What is the area of the triangle?

- A 72 cm^2 B 36 cm^2 C 33 cm^2 D 23 cm^2 E 32 cm^2

END OF TEST

MATHS PAPER 1**ANSWERS**

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