

**1.**

I bought 5 pencils.

I was given 25p change from £1.

How much did each pencil cost?

**2.**

Dionne has a £5 note, a 50 pence piece, three 2 pence pieces and two 1 pence pieces.

How much money does she have?

**3.**

These are the months of the year:

January	February	March
April	May	June
July	August	September
October	November	December

What fraction of the months begin with the letter J?

**4.**

In 2012, 16 girl guides went to guide camp.

In 2013, twice as many went as in 2012.

In 2014, twice as many went as in 2013.

How many children went in 2014?

**5.**

Which number is divisible by both 3 and 6?

6

15

21

33

63

**6.**

This machine triples and then adds 5.



Which number has been put in?

**7.**

Apples are put in boxes, ready to go to market.

Each box holds 64 apples.

How many boxes are needed for 704 apples?

**8.**

Mr Khan's supermarket bill is £12.50.

At the checkout, the bill is reduced by £0.75 for vouchers.

What is the new amount Mr Khan has to pay?

**9.**

Which of the five large letters has two lines of symmetry?

<b>J</b>	<b>K</b>	<b>D</b>	<b>X</b>	<b>C</b>
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**10.**

There are 310 children at Tintown School.

Half the children walk to school.

The rest travel by bus or car.

How many children travel by bus or car?

**11.**

Which container will hold about 10 litres?

A bucket

A teapot

A milk bottle

A teacup

A mug

**12.**

Daisy collected the following data during a survey of her school friends:

Favourite Colours			
	GREEN	BLUE	RED
Boys	9	12	10
Girls	14	?	10

75 friends completed the survey.

How many girls gave blue as their favourite colour?

**13.**

I bought two tins of beans and a loaf of bread.

The two tins of beans together cost the same as a loaf of bread.

If I spent £2 altogether, how much does one tin of beans cost?

**14.**

A newspaper showed temperatures in 5 cities on a day in December:

Munich 4°C                      Inverness -2°C

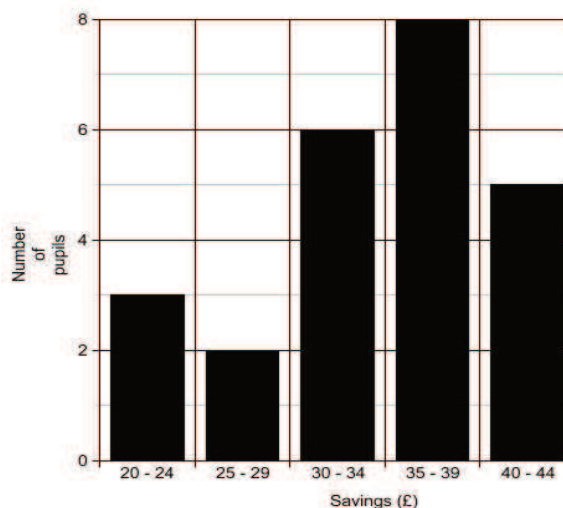
Birmingham -6°C      Dundee -1°C

Barcelona 13°C

Which was the coldest?

**15.**

This bar chart shows amounts of money saved by a class of pupils. Which statement must be true?



A - 6 children have saved between £25 and £29.

B - 6 children have saved more than £40 but less than £45.

C - 2 children have saved exactly £25.

D - No children have saved less than £22.

E - There are 24 children in the class.

**16.**

Which answer has three numbers that are all multiples of 5 or 7?

A - 5, 15, 22

B - 45, 47, 56

C - 10, 21, 30

D - 14, 15, 18

E - 5, 15, 34

**17.**

There are 65 shelves in Urmston Bookshop.

There are 20 books on each shelf.

How many books are in Urmston Bookshop?

**18.**

A can of coke costs 72p.

How much would 6 cans cost?

**19.**

Harry multiplies a number by itself.

He halves the answer.

The new number is 32.

What number did he start with?

5

6

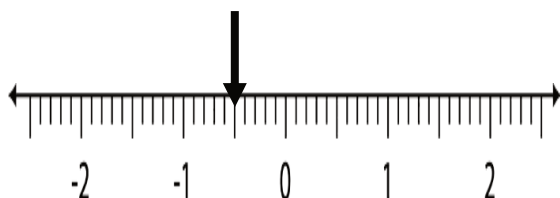
7

8

9

**20.**

Look at this number line:



To which number does the arrow point?

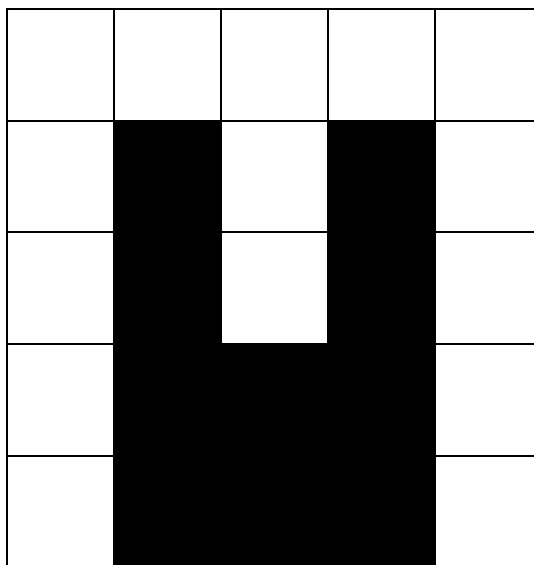
**21.**

Which of the five large letters does NOT have rotational symmetry of order 2?

<b>S</b>	<b>N</b>	<b>T</b>	<b>X</b>	<b>Z</b>
a	b	c	d	e

**22.**

What fraction of this grid is shaded?



**23.**

13	27	41
27	41	55
41	55	

What is the missing number?

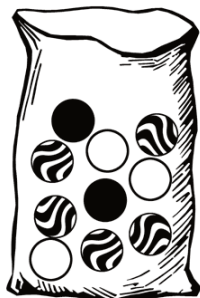
**24.**

For which of these is the probability exactly  $\frac{1}{2}$ ?

- A – Your teacher will turn into a unicorn.
- B – Mr Smith will break his arm.
- C – Amy will get to school on time tomorrow.
- D – Indigo will throw heads when she tosses a coin.
- E – Toby will come second in a singing competition.

**25.**

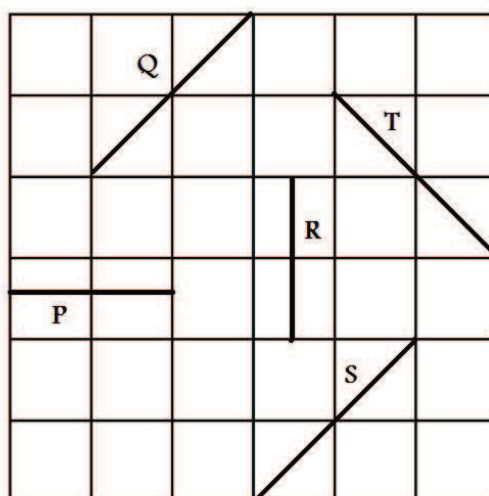
Hamish chooses a sweet from this bag without looking. What is the probability that the sweet he chooses is stripy?



- 1/5
- 1/2
- 1/4
- 3/10
- 4/5

**26.**

Which two of these statements is incorrect?



- A – Line P is a horizontal line.
- B – Line R is perpendicular to line S.
- C – Line Q is perpendicular to line P.
- D – Line S is parallel to line Q.
- E – Line T is perpendicular to line S.

**27.**

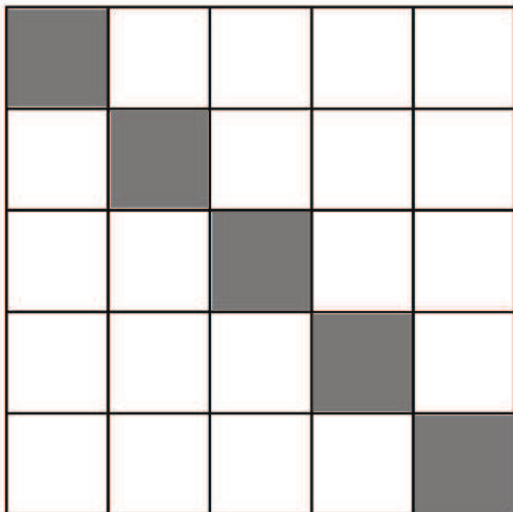
On holiday, Miss McTavish buys a cardigan for 20 dollars and a notepad for 5 dollars.

She calculates that the cardigan cost £10 and the book cost £2.50.

How much would a 10 dollar book cost?

**28.**

What percentage of this grid is not shaded?



**29.**

Billy is 4 feet 2 inches tall.

Which is closest to his height in metres?

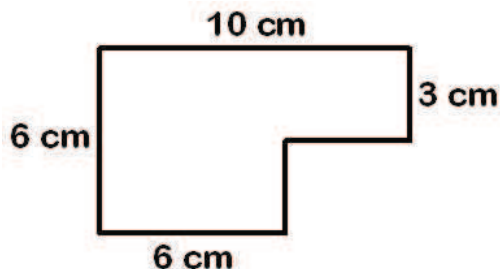
- 1 m   1.3 m   2 m   3m   4m

**30.**

Sandy was  $x$  years old 2 years ago.  
How old is he now?

**31.**

This is a plan of a room in a dolls house:



What is the perimeter of the room?

**32.**

A pencil case contains 3 pens, 2 pencils and 1 rubber.

You are asked to close your eyes and pick an item from the bag.

In which of these are **both** statements true?

A -You are certain to pick a pencil.  
-You have a less than even chance of picking a pen.

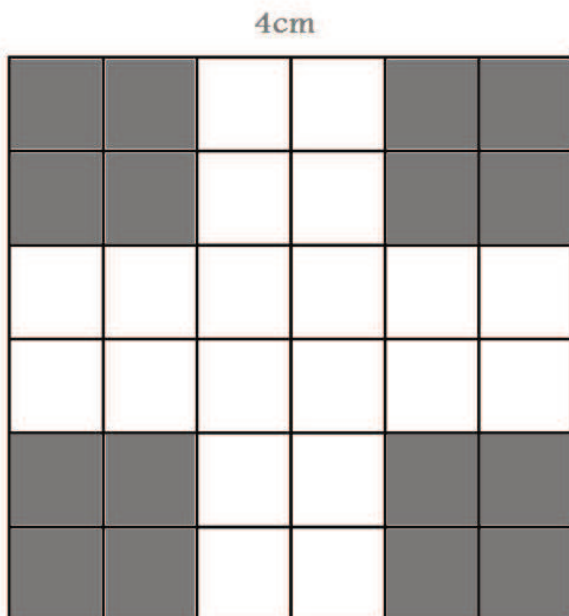
B -You have an even chance of picking a pen.  
-You have a more than even chance of picking a rubber.

C -You have an even chance of picking a pencil.  
-You have a less than even chance of picking a rubber.

D -You have an even chance of picking a pen.  
-You have a less than even chance of picking a rubber.

E - You have an even chance of picking a rubber.  
- You have a less than even chance of picking a pencil.

33.



The shaded corners are cut out of this flat shape. The white area is then folded to make a box.

What is the surface area of the box?

34.

Which row shows a prime, square and cube number in the correct order?

	Prime number	Square number	Cube number
A	2	16	62
B	7	81	22
C	9	9	27
D	11	25	16
E	13	100	27

35.

Which number is closest in value to 6?

- 6.1000
- 5.9880
- 6.0090
- 5.9900
- 6.0100

36.

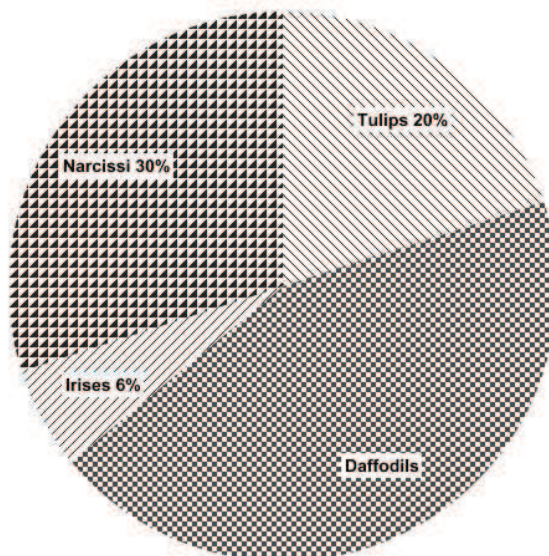
What is this number to two decimal places?

4.3947

37.

If  $x + 3 = 18$ , what is  $x$ ?

38.



This pie chart shows proportions of different flowers in the park.

What percentage of flowers are daffodils?

**39.**

Mrs Dipsy is a birdwatcher.

This table shows how many birds she saw on each weekday.

Day	Number of birds
Mon	7
Tues	3
Weds	5
Thurs	6
Fri	9

What is the mean number of birds Mrs Dipsy saw each day?

**40.**

Lucy and Henry share sweets in the ratio 1:3. If there are 12 sweets altogether, how many does Lucy receive?

**41.**

There are 10 biscuits in a packet.

How many whole packets would a factory fill with 205 biscuits?

**42.**

This machine doubles and then subtracts 4.

$$? \rightarrow \boxed{\phantom{000}} \rightarrow 16$$

Which number has been put in?

**43.**

Which of these sets of numbers contains no cube numbers?

A	1	9	25
B	7	8	125
C	16	44	56
D	3	25	64
E	16	27	45

**44.**

The hands on a clock show 3pm.

What is the smaller angle between the hour hand and the minute hand?

**45.**

A car is travelling at 50mph. How long would it take to cover 125 miles?

**46.**

Find the missing number to balance the equation.

$$(6 \div 3) + 12 = 4 \times 2 + \underline{\hspace{2cm}}$$

**47.**

2 kg of apples costs £2.10. How much would 3 kg cost?

**48.**

William is counting money. He counts £2.80, £6.50 and £10.50. How much is this in total?

**49.**Colin counts 42 cars in the road.  $\frac{2}{3}$  are silver: how many cars are not silver?

**50.**

The four children in the Hamilton-Jones family each receive pocket money. Each week Toulouse receives £5.00, Sapphire receives £3.50, Persephone receives £1.50 and Agapanthus receives £1. What is the range of pocket money received by the Hamilton-Jones children?

END OF TEST

CHECK ALL YOUR ANSWERS IF YOU HAVE TIME!



Name:

<b>1</b>	
5 p	<input type="checkbox"/>
10 p	<input type="checkbox"/>
15 p	<input type="checkbox"/>
20 p	<input type="checkbox"/>
25 p	<input type="checkbox"/>

<b>7</b>	
7	<input type="checkbox"/>
8	<input type="checkbox"/>
9	<input type="checkbox"/>
10	<input type="checkbox"/>
11	<input type="checkbox"/>

<b>13</b>	
40 p	<input type="checkbox"/>
50 p	<input type="checkbox"/>
60 p	<input type="checkbox"/>
70 p	<input type="checkbox"/>
80 p	<input type="checkbox"/>

<b>19</b>	
5	<input type="checkbox"/>
6	<input type="checkbox"/>
7	<input type="checkbox"/>
8	<input type="checkbox"/>
9	<input type="checkbox"/>

<b>25</b>	
1/5	<input type="checkbox"/>
1/2	<input type="checkbox"/>
1/4	<input type="checkbox"/>
3/10	<input type="checkbox"/>
4/5	<input type="checkbox"/>

<b>31</b>	
48 cm	<input type="checkbox"/>
36 cm	<input type="checkbox"/>
32 cm	<input type="checkbox"/>
26 cm	<input type="checkbox"/>
24 cm	<input type="checkbox"/>

<b>2</b>	
£5.58	<input type="checkbox"/>
£5.78	<input type="checkbox"/>
£5.46	<input type="checkbox"/>
£5.36	<input type="checkbox"/>
£5.25	<input type="checkbox"/>

<b>8</b>	
£11.75	<input type="checkbox"/>
£12.25	<input type="checkbox"/>
£12.55	<input type="checkbox"/>
£12.75	<input type="checkbox"/>
£13.00	<input type="checkbox"/>

<b>14</b>	
Munich	<input type="checkbox"/>
Inverness	<input type="checkbox"/>
Birmingham	<input type="checkbox"/>
Dundee	<input type="checkbox"/>
Barcelona	<input type="checkbox"/>

<b>20</b>	
0.5	<input type="checkbox"/>
-0.5	<input type="checkbox"/>
-1.5	<input type="checkbox"/>
1.5	<input type="checkbox"/>
-0.25	<input type="checkbox"/>

<b>26</b>	
A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

<b>32</b>	
A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

<b>3</b>	
1/6	<input type="checkbox"/>
1/3	<input type="checkbox"/>
1/8	<input type="checkbox"/>
1/5	<input type="checkbox"/>
1/4	<input type="checkbox"/>

<b>9</b>	
J	<input type="checkbox"/>
K	<input type="checkbox"/>
D	<input type="checkbox"/>
X	<input type="checkbox"/>
C	<input type="checkbox"/>

<b>15</b>	
A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

<b>21</b>	
a	<input type="checkbox"/>
b	<input type="checkbox"/>
c	<input type="checkbox"/>
d	<input type="checkbox"/>
e	<input type="checkbox"/>

<b>27</b>	
£5	<input type="checkbox"/>
£6	<input type="checkbox"/>
£7	<input type="checkbox"/>
£8	<input type="checkbox"/>
£9	<input type="checkbox"/>

<b>33</b>	
40 cm <sup>3</sup>	<input type="checkbox"/>
60 cm <sup>3</sup>	<input type="checkbox"/>
80 cm <sup>3</sup>	<input type="checkbox"/>
120 cm <sup>3</sup>	<input type="checkbox"/>
140 cm <sup>3</sup>	<input type="checkbox"/>

<b>4</b>	
64	<input type="checkbox"/>
84	<input type="checkbox"/>
44	<input type="checkbox"/>
24	<input type="checkbox"/>
54	<input type="checkbox"/>

<b>10</b>	
125	<input type="checkbox"/>
135	<input type="checkbox"/>
145	<input type="checkbox"/>
155	<input type="checkbox"/>
165	<input type="checkbox"/>

<b>16</b>	
A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

<b>22</b>	
1/5	<input type="checkbox"/>
2/5	<input type="checkbox"/>
3/5	<input type="checkbox"/>
1/2	<input type="checkbox"/>
3/4	<input type="checkbox"/>

<b>28</b>	
80%	<input type="checkbox"/>
70%	<input type="checkbox"/>
60%	<input type="checkbox"/>
40%	<input type="checkbox"/>
20%	<input type="checkbox"/>

<b>34</b>	
A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

<b>5</b>	
6	<input type="checkbox"/>
15	<input type="checkbox"/>
21	<input type="checkbox"/>
33	<input type="checkbox"/>
63	<input type="checkbox"/>

<b>11</b>	
a bucket	<input type="checkbox"/>
a teapot	<input type="checkbox"/>
a milk bottle	<input type="checkbox"/>
a teacup	<input type="checkbox"/>
a mug	<input type="checkbox"/>

<b>17</b>	
1100	<input type="checkbox"/>
1150	<input type="checkbox"/>
1200	<input type="checkbox"/>
1250	<input type="checkbox"/>
1300	<input type="checkbox"/>

<b>23</b>	
62	<input type="checkbox"/>
64	<input type="checkbox"/>
69	<input type="checkbox"/>
71	<input type="checkbox"/>
72	<input type="checkbox"/>

<b>29</b>	
1 m	<input type="checkbox"/>
1.3 m	<input type="checkbox"/>
2 m	<input type="checkbox"/>
3 m	<input type="checkbox"/>
4 m	<input type="checkbox"/>

<b>35</b>	
6.1000	<input type="checkbox"/>
5.9880	<input type="checkbox"/>
6.0090	<input type="checkbox"/>
5.9900	<input type="checkbox"/>
6.0100	<input type="checkbox"/>

<b>6</b>	
3	<input type="checkbox"/>
4	<input type="checkbox"/>
5	<input type="checkbox"/>
6	<input type="checkbox"/>
7	<input type="checkbox"/>

<b>12</b>	
17	<input type="checkbox"/>
18	<input type="checkbox"/>
19	<input type="checkbox"/>
20	<input type="checkbox"/>
21	<input type="checkbox"/>

<b>18</b>	
£3.86	<input type="checkbox"/>
£4.08	<input type="checkbox"/>
£4.26	<input type="checkbox"/>
£4.32	<input type="checkbox"/>
£4.88	<input type="checkbox"/>

<b>24</b>	
A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

<b>30</b>	
X - 2	<input type="checkbox"/>
X - 4	<input type="checkbox"/>
X + 2	<input type="checkbox"/>
X + 4	<input type="checkbox"/>
X + 6	<input type="checkbox"/>

<b>36</b>	
4.394	<input type="checkbox"/>
4.38	<input type="checkbox"/>
4.4	<input type="checkbox"/>
4.40	<input type="checkbox"/>
4.39	<input type="checkbox"/>

<b>37</b>	
11	<input type="checkbox"/>
12	<input type="checkbox"/>
13	<input type="checkbox"/>
14	<input type="checkbox"/>
15	<input type="checkbox"/>

<b>43</b>	
A	<input type="checkbox"/>
B	<input type="checkbox"/>
C	<input type="checkbox"/>
D	<input type="checkbox"/>
E	<input type="checkbox"/>

<b>49</b>	
14	<input type="checkbox"/>
28	<input type="checkbox"/>
18	<input type="checkbox"/>
30	<input type="checkbox"/>
34	<input type="checkbox"/>

TOTAL:	/50
--------	-----

<b>38</b>	
42%	<input type="checkbox"/>
44%	<input type="checkbox"/>
46%	<input type="checkbox"/>
48%	<input type="checkbox"/>
52%	<input type="checkbox"/>

<b>44</b>	
45 o	<input type="checkbox"/>
50 o	<input type="checkbox"/>
60 o	<input type="checkbox"/>
80 o	<input type="checkbox"/>
90 o	<input type="checkbox"/>

<b>50</b>	
£4.00	<input type="checkbox"/>
£4.40	<input type="checkbox"/>
£4.60	<input type="checkbox"/>
£4.80	<input type="checkbox"/>
£5.00	<input type="checkbox"/>

PERCENTAGE:	%
-------------	---

<b>39</b>	
6	<input type="checkbox"/>
4	<input type="checkbox"/>
5	<input type="checkbox"/>
8	<input type="checkbox"/>
7	<input type="checkbox"/>

<b>45</b>	
2 hours	<input type="checkbox"/>
2.25 hours	<input type="checkbox"/>
2.5 hours	<input type="checkbox"/>
2.75 hours	<input type="checkbox"/>
3 hours	<input type="checkbox"/>

<b>40</b>	
3	<input type="checkbox"/>
4	<input type="checkbox"/>
2	<input type="checkbox"/>
1	<input type="checkbox"/>
5	<input type="checkbox"/>

<b>46</b>	
5	<input type="checkbox"/>
6	<input type="checkbox"/>
7	<input type="checkbox"/>
8	<input type="checkbox"/>
9	<input type="checkbox"/>

<b>41</b>	
18	<input type="checkbox"/>
20	<input type="checkbox"/>
21	<input type="checkbox"/>
25	<input type="checkbox"/>
26	<input type="checkbox"/>

<b>47</b>	
£3.05	<input type="checkbox"/>
£3.10	<input type="checkbox"/>
£3.12	<input type="checkbox"/>
£3.15	<input type="checkbox"/>
£3.25	<input type="checkbox"/>

<b>42</b>	
8	<input type="checkbox"/>
9	<input type="checkbox"/>
10	<input type="checkbox"/>
11	<input type="checkbox"/>
12	<input type="checkbox"/>

<b>48</b>	
£18.40	<input type="checkbox"/>
£18.80	<input type="checkbox"/>
£19.20	<input type="checkbox"/>
£19.40	<input type="checkbox"/>
£19.80	<input type="checkbox"/>

**Answers**

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1. 15p
2. £5.58
3.  $\frac{1}{4}$
4. 64
5. 6
6. 4
7. 11
8. £11.75
9. X
10. 155
11. a bucket
12. 20
13. 50p
14. Birmingham
15. E
16. c
17. 1300
18. £4.32
19. 8
20. -0.5
21. c
22.  $\frac{2}{5}$
23. 69
24. D
25.  $\frac{1}{2}$
26. B and C
27. £5
28. 80%
29. 1.3m
30.  $x + 2$
31. 32cm
32. D
33. 80cm<sup>3</sup>
34. E
35. 6.0090
36. 4.39
37. 15
38. 44%
39. 6
40. 3
41. 20
42. 12

43. C

44. 90 DEGREES

45. 2.5 HOURS

46. 6

47. £3.15

48. £19.80

49. 14

50. £4.00