

# Place Value

1. Ali puts these five numbers in their correct places on a number line.

511      499      502 —      555      455

*Eighty three thousand one hundred and forty eight*

Write the number **closest** to 500

499

Write the number **furthest** from 500

555


2.

**A**




~~£135,300~~

**B**




~~£119,125~~

**C**



~~£130,500~~

**D**



~~£131,500~~

**E**



~~£91,500~~

Put these houses in order of price starting with the **lowest price**.

One has been done for you.

E      B      C      D      A

lowest

3. Write the number 53,148 in words.

fifty three thousand, one hundred and forty eight

4. Look at this number.

23,451.96

Write the **digit** that is in the hundreds place.

4

Write the **digit** that is in the hundredths place.

6

5. Circle the number that is closest to 20

19.95   ~~20.1~~   ~~19.09~~   ~~20.09~~   ~~20.201~~

6. Complete these calculations.

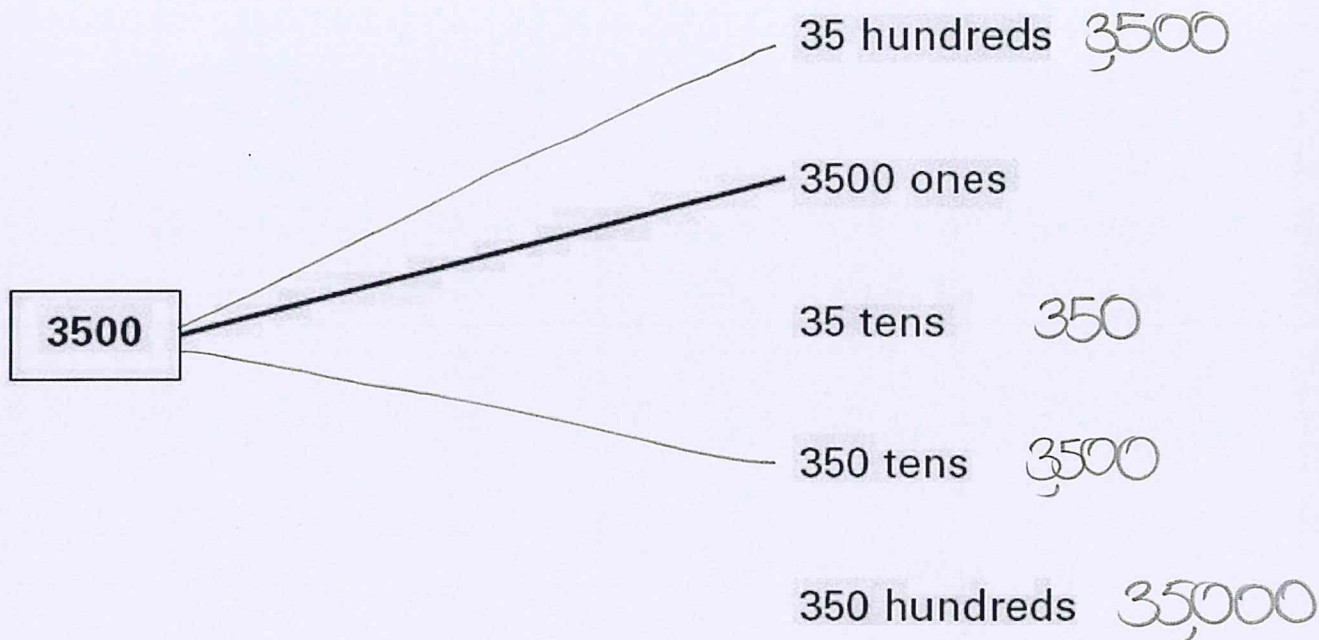
$$15 \times 100 = 1500$$

$$150 \times 10 = 1500$$

$$15000 \div 100 = 150$$

$$150 \div 10 = 15$$

7. Draw two more lines to match **3500** to numbers with the same value.



8.  $\boxed{20,999}$  is 1000 more than  $19\,999$

$39\,001$  is 1000 more than  $\boxed{38,001}$

9. What is the value of the digit 9 in the number

697,432 ?

Circle the correct answer.

- nine thousand
- nine hundred
- ninety thousand**
- nine million
- nine hundred thousand

10. Write in figures the number **twenty thousand and twenty**.

20,020



# addition

1. Write the three missing digits to make this **addition** correct.

$$\begin{array}{r}
 15\boxed{1} \\
 + 4\boxed{6}4 \\
 \hline
 \boxed{6}15 \\
 1
 \end{array}$$

2. This table shows the number of people living in various towns in England.

Town	Population
Bedford	82,448
Carlton	48,493
Dover	34,087
Formby	24,478
Telford	166,640

What is the **total** of the numbers of people living in Formby and in Telford?

$$\begin{array}{r}
 24478 \\
 + 166640 \\
 \hline
 191118 \\
 \hline
 111
 \end{array}$$

**191,118**

What is the **difference** between the numbers of people living in Bedford and in Dover?

$$\begin{array}{r}
 78^1 2^3 4^1 48 \\
 - 34087 \\
 \hline
 48361
 \end{array}$$

**48,361**

3. Circle 2 numbers that add together to make 0.35

**0.05**

0.32

**0.3**

0.2

4. Two decimal numbers add together to equal 1.

One of these numbers is 0.002

What is the other number?

0.998

5. Write in the missing number:

$$2 + 20 +$$

78

$$= 100$$

6. Write in the missing number.

$$8.5 + 14.7 = 10.2 +$$
$$+ \frac{8.5}{23.2}$$

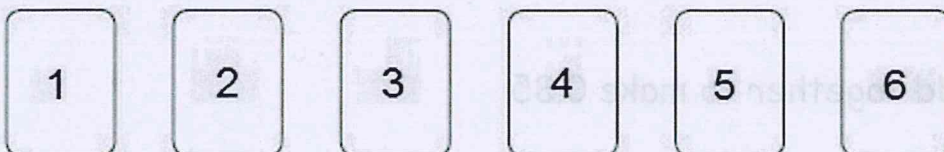
13

$$\begin{array}{r} 23.2 \\ - 10.2 \\ \hline 13.0 \end{array}$$

7. Write in the missing digits.

$$\begin{array}{|c|c|c|} \hline 1 & 3 & 7 \\ \hline \end{array} + \begin{array}{|c|c|} \hline 6 & 3 \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline 2 & 0 & 0 \\ \hline \end{array}$$

8. Here are six digit cards.



Use four of the cards to make this addition correct.

$$\begin{array}{|c|c|} \hline 2 & 6 \\ \hline \end{array} + \begin{array}{|c|c|} \hline 1 & 4 \\ \hline \end{array} = 40$$

9. The table shows the cost of a new football kit.

Item	Cost
Shirt	£8.75
Shorts (1 pair)	£5.95
Socks (1 pair)	£4.15



Altogether, how much does the complete football kit cost?

$$\begin{array}{r} 8.75 \\ 5.95 \\ + 4.15 \\ \hline 18.85 \end{array}$$

£ 18.85

10. Three whole numbers add up to 50

Seb says,

**'All three numbers must be even numbers.'**

Is Seb correct?  
Circle Yes or No.

Yes / **No**

Explain how you know.

because  $45 + 3 + 2 = 50$   
and both 45 and 3 are odd





# Subtraction

1. Write the number that is five less than ten million.

9,999,995

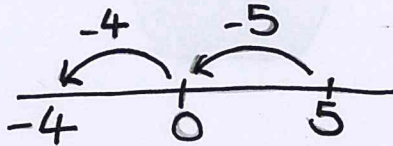
Write the number that is one hundred thousand less than six million.

5,900,000

2. This table shows the temperature at 9 am on three days in January.

1st January	8th January	15th January
+5°C	-4°C	+1°C

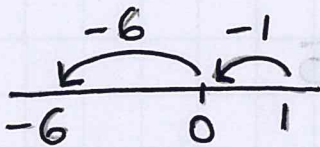
What is the difference between the temperature on 1st January and the temperature on 8th January?



9 °C

On 22nd January the temperature was 7 degrees lower than on 15th January.

What was the temperature on 22nd January?



-6 °C

3. Write the two missing digits.

$$\boxed{6} \boxed{1} - \boxed{2} \boxed{7} = 34$$

$$\begin{array}{r} 5 \cancel{6} \overset{1}{1} \\ 27 \\ \hline 34 \end{array}$$

4. A pack of paper has 150 sheets.

4 children each take 7 sheets.

How many sheets of paper are left in the packet?

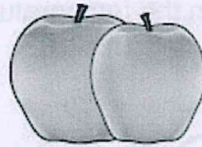
Show your method

$$4 \times 7 = 28$$
$$\begin{array}{r} 150 \\ - 28 \\ \hline 122 \end{array}$$

122

5. Liam buys two apples.

He pays with a £1 coin and gets 64p change.



How much does one apple cost?

Show your method

$$\begin{array}{r} 18 \\ 2 \overline{)36} \end{array}$$

64 70 100

+6 +30

18 p

6. Chen and Megan each buy a sandwich.

Chen gets 5p change from £2

Megan gets £2.25 change from £5

How much **more** does Megan pay than Chen?

Show your method

$1.95$

$+5$     $+70$     $+200 = 2.75$

225   230   300   500

$$\begin{array}{r} 2.75 \\ - 1.95 \\ \hline 0.80 \end{array}$$

80p

7. Dev and Joe each buy a book.

Dev pays with a £5 note and gets £1.05 change.

Joe's book costs £7

How much **more** does Joe's book cost than Dev's book?

Show your method

$3.95$

$+5$     $+300$

395   400   700

£ 3.05

8. Amir has £20

He wants to buy a bird-feeder and 4 bags of bird seed.

How much **more** money does he need?

Show your method

£ 3.25

9. Emily has these coins.



How much more money does Emily need to make exactly £5?

$$\begin{array}{r} 100 \\ 50 \\ 20 \\ 20 \\ 5 \\ \hline 195 \end{array}$$

£ 3.05

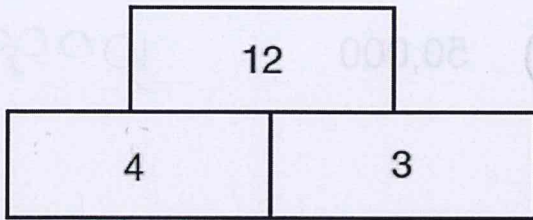
$$\begin{array}{c} +5 \quad +300 \\ \curvearrowright \quad \curvearrowright \\ 195 \quad 200 \quad 500 \end{array}$$



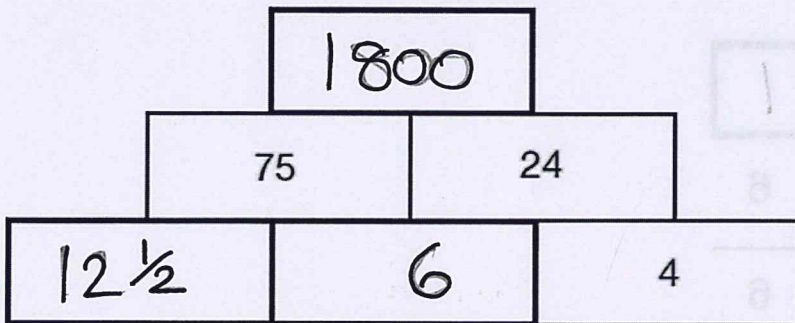


# Multiplication

1. In this tower, two numbers are **multiplied** to give the number above.



Write the missing numbers in the tower below to make it correct.



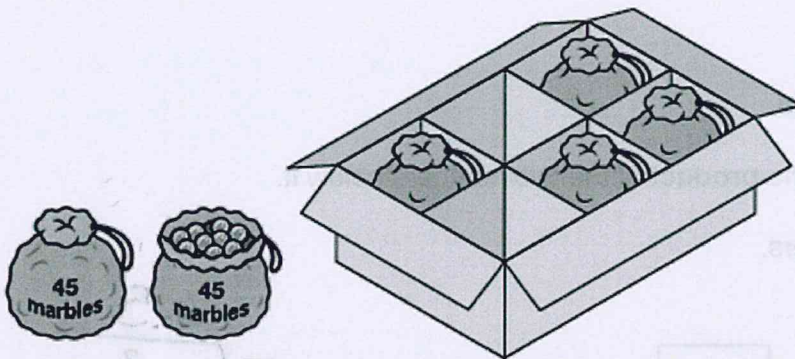
$$6 \overline{) 12 \frac{1}{2}}$$

$$\begin{array}{r} 75 \\ \times 24 \\ \hline 300 \\ 1500 \\ \hline 1800 \end{array}$$

2. A toy shop orders 11 boxes of marbles.

Each box contains 6 bags of marbles.

Each bag contains 45 marbles.



how many marbles does the shop buy?

Show your method

	$6 \times 11 = 66$	$\begin{array}{r} 66 \\ \times 45 \\ \hline 330 \\ 2640 \\ \hline 2970 \end{array}$	2970 marbles
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3. Circle two numbers that multiply together to equal 1 million.

200

2,000

5,000

50,000

10,000,000

100,000,000

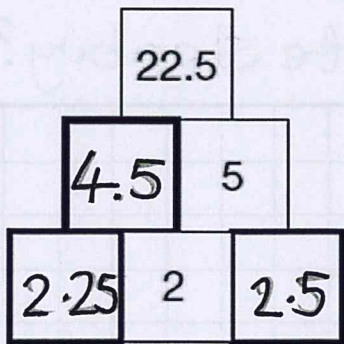
4. Write the two missing digits to make this long multiplication correct.

$$\begin{array}{r}
 \phantom{\times} \phantom{4} \phantom{1} \\
 \phantom{\times} \phantom{4} \boxed{1} \\
 \times \phantom{4} \boxed{2} \phantom{1} \\
 \hline
 2 \phantom{4} \phantom{6} \\
 8 \phantom{2} \phantom{0} \\
 \hline
 1 \phantom{0} \phantom{6} \phantom{6}
 \end{array}$$

5. Here is a number pyramid.

The number in a box is the product of the two numbers below it.

Write the missing numbers.



$$\begin{array}{r}
 4.5 \\
 5 \overline{) 22.5} \\
 \underline{20} \phantom{0} \\
 25 \\
 \underline{25} \\
 0
 \end{array}$$

$$\begin{array}{r}
 2.25 \\
 2 \overline{) 4.50} \\
 \underline{4} \phantom{0} \\
 50 \\
 \underline{40} \\
 100 \\
 \underline{100} \\
 0
 \end{array}$$



6. Alfie says,

'When you multiply two numbers together, the answer is always greater than either of the numbers you started with.'

Is Alfie correct?  
Circle Yes or No.

Yes  No

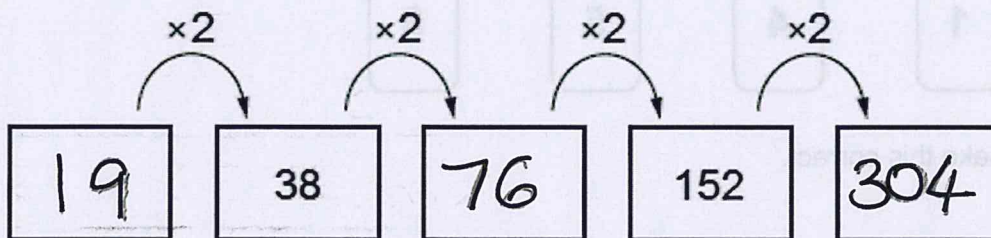
Explain how you know.

If you multiply by a number less than one, the answer is smaller than the number you started with

eg  $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$

7. Here is a doubling sequence.

Write the three missing numbers.



8. Write the missing number to make this calculation correct.

11 ×  = 1111

$$\begin{array}{r} \times 100 = 1100 \\ \times 1 = 11 \\ \hline 1111 \end{array}$$

9.

Amir says,

'All numbers that end in a 4 are multiples of 4'.

Is he correct?

Circle Yes or No.

Yes / **No**

Explain how you know.

14 ends in a 4 but is not a multiple of 4

10.

Here are five digit cards.

0

1

4

5

8

Use all five digit cards to make this correct.

54

$\times 2 =$

108

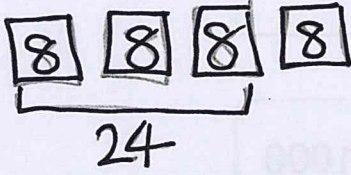
$$\begin{array}{r} 100 \\ + 11 \\ \hline 111 \end{array}$$

101

# Division

1. Plastic cups are sold in packs of 8

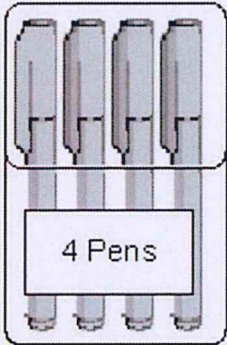
Amir needs 27 cups.



How many packs must he buy?

4 packs

2. 50 children need one pen each.



Pens are sold in packs of 4

How many packs of pens need to be bought?

$$4 \overline{) 50} \begin{array}{r} 12 \text{ r } 2 \\ 40 \\ \hline 50 \\ \hline 2 \end{array} = 13$$

13 packs

3. Here are six cards.

$\times 10$

$\times 100$

$\times 1000$

$\div 10$

$\div 100$

$\div 1000$

Use a card to complete each calculation.

$5.3 \boxed{\div 10} = 0.53$

$5.3 \boxed{\times 1,000} = 5300$

$5.3 \boxed{\div 100} = 0.053$

4. Write in the missing number.

$\boxed{24} \times 4 = 96$

5. Write in the missing number.

$3400 \div \boxed{34} = 100$

6. Calculate  $936 \div 36$

Show your method

$$\begin{array}{r} 26 \\ 36 \overline{) 936} \\ \underline{-72} \phantom{0} \\ 216 \\ \underline{216} \\ 000 \end{array}$$

$$\begin{array}{r} 1. \quad 36 \\ 2. \quad 72 \\ 3. \quad 108 \\ \times 2 \downarrow \\ 6. \quad 216 \\ \hline 26 \end{array}$$

7. Large pizzas cost £8.50 each.  
Small pizzas cost £6.75 each.  
Five children together buy one large pizza and three small pizzas.  
They share the cost equally.  
How much does each child pay?

Show your method

$$\begin{array}{r} 8.50 \\ + 20.25 \\ \hline 28.75 \end{array}$$

$$\begin{array}{r} 6.75 \\ \times 3 \\ \hline 20.25 \\ 21 \phantom{0} \\ \hline \end{array}$$

$$\begin{array}{r} 5.75 \\ 5 \overline{) 28.75} \end{array}$$

£ 5.75

8. Seb goes on a sponsored walk to collect money for charity.  
 His aunt promises to pay 75p for each kilometre he walks.  
 She pays him £6.75 at the end of the walk.  
 How many kilometres does Seb walk?

$$\begin{array}{r|l}
 1. & 0.75 \\
 2. & 1.50 \\
 \hline
 4. & 3.00 \\
 \hline
 8. & 6.00 \\
 \hline
 9. & 6.75
 \end{array}$$

9 km

9. You save £1.50 per week.



$$\begin{array}{r|l}
 1. & 1.50 \\
 2. & 3 \\
 \hline
 4. & 6 \\
 \hline
 8. & 12 \\
 \hline
 12. & 18 \\
 \hline
 13. & 19.50
 \end{array}$$

How many weeks before you can buy this book?

13 weeks