Addition, Subtraction, Multiplication and Division

Challenge Cards

twinkl

1

One gigabyte (GB) is 1024 megabytes (MB). A computer file is 27GB. How many megabytes is the file?
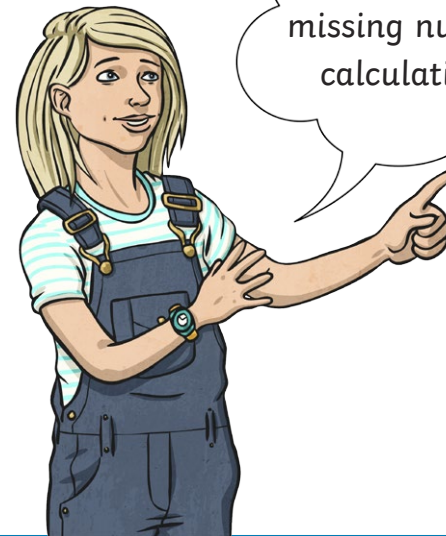

2
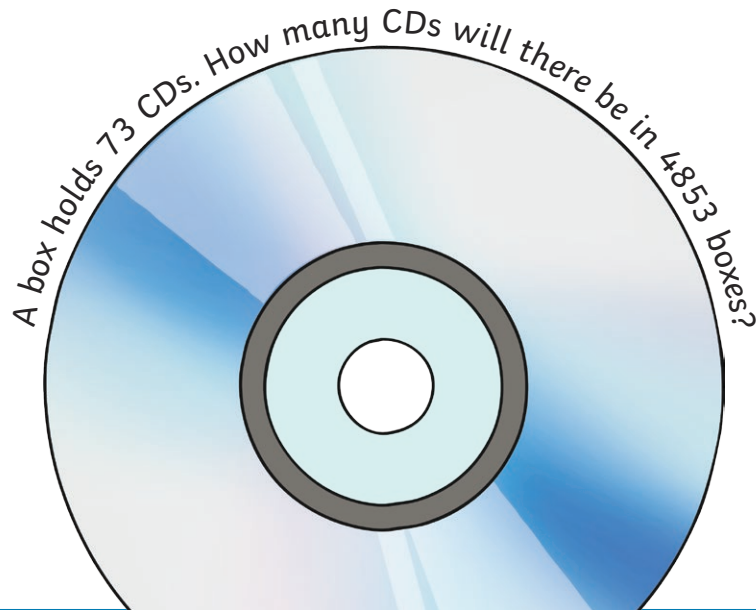
A box holds 73 CDs. How many CDs will there be in 4853 boxes?

3

Complete this missing number calculation:

```
    9 [ ] 8 3
  ×     8 [ ]
  _____
  5 7 4 9 8
7 6 6 6 4 0
_____
8 2 4 1 3 8
```

$$\begin{array}{cccc} \boxed{} & 7 & 2 & \boxed{} \\ \times & & \boxed{} & 7 \\ \hline \end{array}$$

6 1 1 0 3

3 4 9 1 6 0

4 1 0 2 6 3

Complete this missing number calculation:
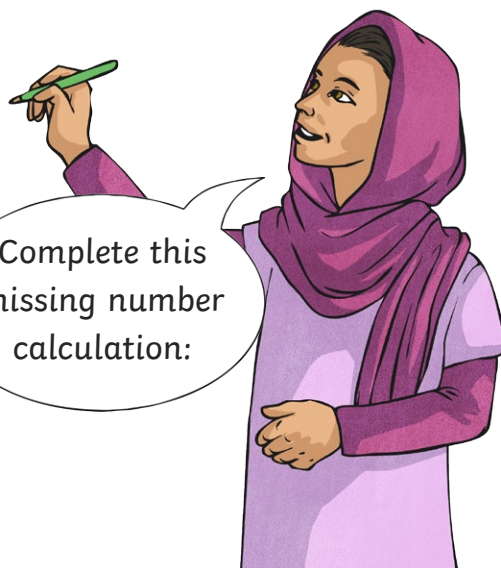
There are 16 416 cuddly toys. They are shared equally between 456 boxes. How many cuddly toys are in each box?
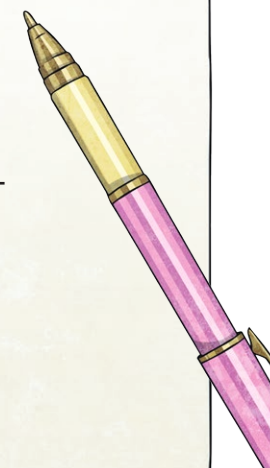
Complete this missing number calculation:

$$2\,7 \,\overline{)\, 6\,\boxed{}\,4\,2} \qquad 2\,4\,6$$

Complete this missing number calculation:

$$\boxed{}\,8 \,\overline{)\, 7\,4\,6\,9} \qquad 2\,6\,6.7\,5$$

8

Is this statement correct?

Prime numbers are one less or one more than a multiple of six.

9

What is the lowest common multiple of 15 and 10 multiplied by the lowest common multiple of six and 20?
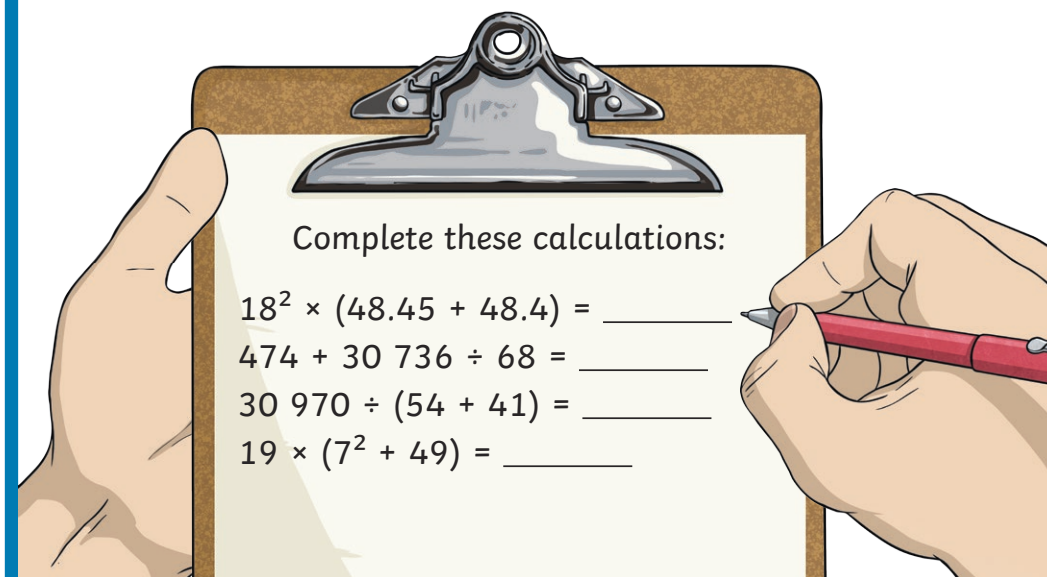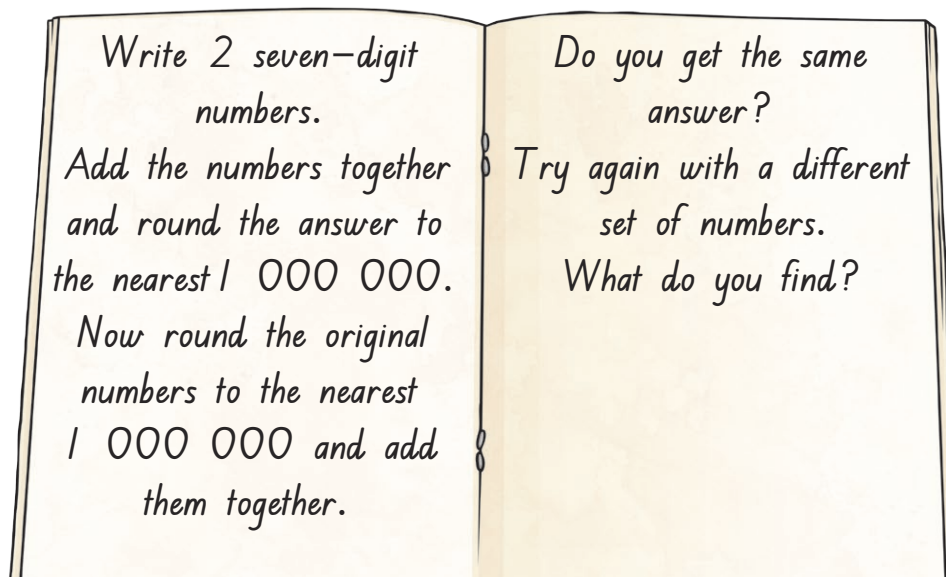
10

The lowest common multiple of three numbers is 36. If one number is two, what could the other numbers be?

11

Ralph had some money. He bought a hot drink for 87p and a sweet snack for £0.73. He has two-thirds of his money left.
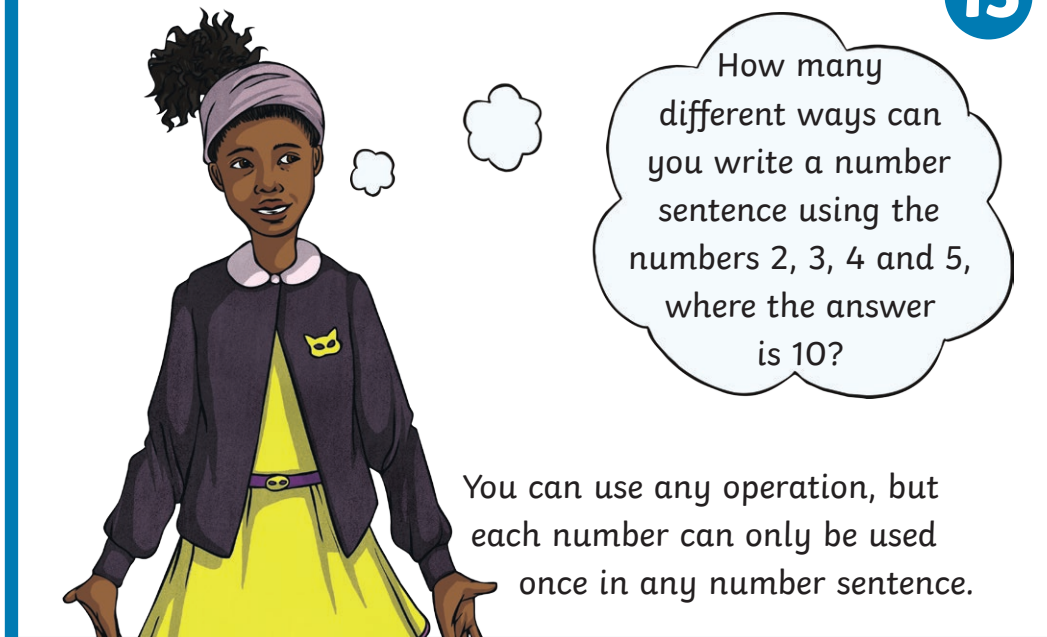
Explain why he started with £4.80.

73p

Jelly Sweets

NET 50g

12

Write 2 seven-digit numbers.
Add the numbers together and round the answer to the nearest 1 000 000.
Now round the original numbers to the nearest 1 000 000 and add them together.

Do you get the same answer?
Try again with a different set of numbers.
What do you find?

13

Complete these calculations:

$18^2 \times (48.45 + 48.4) =$ _____

$474 + 30\ 736 \div 68 =$ _____

$30\ 970 \div (54 + 41) =$ _____

$19 \times (7^2 + 49) =$ _____

14

Think of two possible calculations using the order of operations that would give the answer shown.

485

1) _____

_____

2) _____

_____

15

How many different ways can you write a number sentence using the numbers 2, 3, 4 and 5, where the answer is 10?

You can use any operation, but each number can only be used once in any number sentence.

16

The pop-up store has 2485 mugs at the beginning of the day. A further 1848 mugs are delivered. During the day, 4287 mugs are sold.

How many mugs does the store have at the end of the day?

17

Helen has £200. With her money, she would like to purchase a signed guitar priced £184.60. What could she purchase in the store so she will not have any change left over?
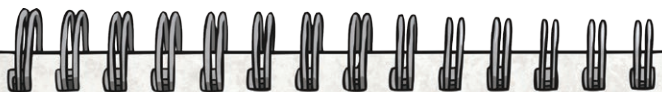
Lanyard: £3.80
Phone case: £7.60
Poster: £1.15
Sticker: £0.10

18

Madison has six more chocolates than Aaliyah. Aaliyah has four more chocolates than Ava. Altogether, they have 65 chocolates.

How many chocolates does Ava have?

19

Complete this missing number calculation:

$$\begin{array}{ccccccc} & 7 & 9 & 3 & 4 & \square & 8 \\ - & 3 & 4 & 9 & 3 & 7 & \square \\ \hline & \square & \square & \square & 0 & 9 & 2 \end{array}$$

Addition, Subtraction, Multiplication and Division Challenge Cards **Answers**

Question	Answer
1. One gigabyte (GB) is 1024 megabytes (MB). A computer file is 27GB. How many megabytes is the file?	
	27 648MB
2. A box holds 73 CDs. How many CDs will there be in 4853 boxes?	
	354 269
3. Complete this missing number calculation:	

```
      9  [5]  8  3
   ×       8  [6]
   _____
      5  7  4  9  8
   7  6  6  6  4  0
   _____
   8  2  4  1  3  8
```

4. Complete this missing number calculation:

```
      [8]  7  2  [9]
   ×           [4]  7
   _____
      6  1  1  0  3
   3  4  9  1  6  0
   _____
   4  1  0  2  6  3
```

5. There are 16 416 cuddly toys. They are shared equally between 456 boxes. How many cuddly toys are in each box?

36

6. Complete this missing number calculation:

```
                2  4  6
         _____
   2  7 | 6  [6]  4  2
```

7. Complete this missing number calculation:

$$\begin{array}{r} 2\ 6\ 6\ .\ 7\ 5 \\ \boxed{2}\ \ 8\ \overline{\smash{\big)}\ 7\ 4\ 6\ 9} \end{array}$$

8. Is this statement correct?
Prime numbers are one less or one more than a multiple of six.

This is correct for every prime number apart from two and three.

9. What is the lowest common multiple of 15 and 10 multiplied by the lowest common multiple of six and 20?

(30 x 60) 1800

10. The lowest common multiple of three numbers is 36. If one number is two, what could the other numbers be?

Any two of 4, 6, 9, 12

11. Ralph had some money. He bought a hot drink for 87p and a sweet snack for £0.73. He has two-thirds of his money left. Explain why he started with £4.80.

He spent £1.60. If two thirds is left, then he has spent one third. He started with 1.60 x 3 = £4.80.

12. Write 2 seven-digit numbers. Add the numbers together and round the answer to the nearest 1 000 000. Now round the original numbers to the nearest 1 000 000 and add them together. Do you get the same answer? Try again with a different set of numbers. What do you find?

Answers are dependent on whether the child needs to round up or down. Some answers will provide the same answers, others will provide a different answer that will differ by 1 000 000,
e.g. 2 225 000 + 3 405 000 = 5 630 000 rounds to 6 000 000
2 000 000 + 300 000 = 5 000 000
This gives a difference of 1 000 000.

13. Complete these calculations:

$18^2 \times (48.45 + 48.4) =$ **31 379.4**
$474 + 30\ 736 \div 68 =$ **926**
$30\ 970 \div (54 + 41) =$ **326**
$19 \times (7^2 + 49) =$ **1862**

14. Think of two possible calculations using the order of operations that would give the answer shown. 485

Various answers

15. How many different ways can you write a number sentence using the numbers 2, 3, 4 and 5, where the answer is 10? You can use any operation, but each number can only be used once in any number sentence.

Various answers, e.g. 3 × 4 − 2, 4 × 5 ÷ 2, (4 − 2) × 5 etc.

16. The pop-up store has 2485 mugs at the beginning of the day. A further 1848 mugs are delivered. During the day, 4287 mugs are sold. How many mugs does the store have at the end of the day?

	46

17. Helen has £200. With her money, she would like to purchase a signed guitar priced £184.60. What could she purchase in the store so she will not have any change left over?

Lanyard: £3.80
Phone case: £7.60
Poster: £1.15
Sticker: £0.10

	Multiple answers, e.g. two phone cases, two stickers

18. Madison has six more chocolates than Aaliyah. Aaliyah has four more chocolates than Ava. Altogether, they have 65 chocolates. How many chocolates does Ava have?

	17 chocolates

19. Complete this missing number calculation:

```
      7  9  3     4 [6] 8
  -   3  4  9     3  7 [6]
    _____
    [4][4][4]    0  9  2
```