# Divide by 10, 100 and 1,000

**White Rose MATHS**

**1** Complete the division sentences.

You may use the place value charts to help you.

**a)**

| Th | H | T | O |
|----|---|---|---|
|    |   | 6 | 0 |

$60 \div 10 = $ ▢

**b)**

| Th | H | T | O |
|----|---|---|---|
|    | 4 | 9 | 0 |

$490 \div 10 = $ ▢

**c)**

| Th | H | T | O |
|----|---|---|---|
| 1  | 4 | 9 | 0 |

$1,490 \div 10 = $ ▢

**d)** What happens to the digits when you divide a number by 10?

_____

_____

**2** Complete the division sentences.

**a)** $90 \div 10 = $ ▢

**b)** $750 \div 10 = $ ▢

**c)** $820 \div 10 = $ ▢

**d)** ▢ $= 1,460 \div 10$

**e)** $32,390 \div 10 = $ ▢

**f)** $6,200 \div 10 = $ ▢

**g)** $700 \div 10 = $ ▢

**h)** $92,000 \div 10 = $ ▢

**3** Complete the divisions.

You may use the place value charts to help you.

**a)**

| HTh | TTh | Th | H | T | O |
|-----|-----|----|---|---|---|
|     |     |    | 9 | 0 | 0 |

$900 \div 100 = $ ▢

**b)**

| HTh | TTh | Th | H | T | O |
|-----|-----|----|---|---|---|
|     | 1   | 6  | 0 | 0 | 0 |

$16,000 \div 100 = $ ▢

**c)**

| HTh | TTh | Th | H | T | O |
|-----|-----|----|---|---|---|
|     |     | 9  | 0 | 0 | 0 |

$9,000 \div 1,000 = $ ▢

**d)**

| HTh | TTh | Th | H | T | O |
|-----|-----|----|---|---|---|
| 7   | 6   | 8  | 0 | 0 | 0 |

$768,000 \div 1,000 = $ ▢

**e)** Explain to a partner how to divide a number by 100

Ask them to explain to you how to divide a number by 1,000

**4** Complete the division sentences.

**a)** $4,500 \div 10 = $ ▢

$62,000 \div 10 = $ ▢

$739,300 \div 10 = $ ▢

**b)** $4,500 \div 100 = $ ▢

$62,000 \div 100 = $ ▢

$739,300 \div 100 = $ ▢

**c)** ▢ $\div 10 = 76$

▢ $\div 100 = 76$

▢ $\div 1,000 = 76$

**d)** ▢ $\div 1,000 = 30$

▢ $\div 1,000 = 300$

▢ $\div 1,000 = 3,000$

**5** Complete the table.

| Number | Number divided by 10 | Number divided by 100 | Number divided by 1,000 |
|---|---|---|---|
| 65,000 | | | |
| | 7,200 | | |
| | | 3,500 | |

**6** Write <, > or = to make the statements true.

**a)** 4,900 ÷ 10 ◯ 4,900 ÷ 100

**b)** 56,000 ÷ 100 ◯ 65,000 ÷ 100

**c)** 93,000 ÷ 1,000 ◯ 9,300 ÷ 100

**d)** 5,700 ÷ 100 ◯ 5,700 ÷ 1,000

**7** Complete the sentences.

**a)** Dividing a number by 10 and then by 10 again is the same as

_____

_____

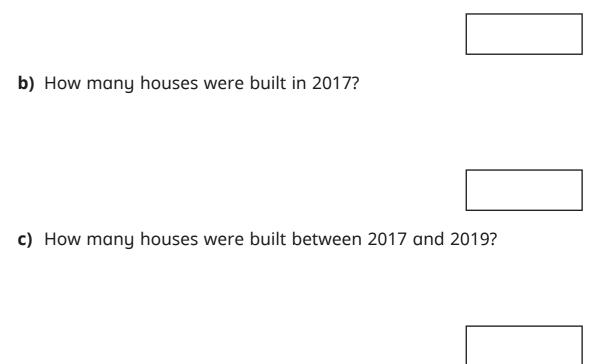**b)** Dividing a number by 1,000 is the same as dividing by 10

and then _____

_____

Compare answers with a partner.

**8** In 2019, 568,000 houses were built.

In 2018, 10 times fewer houses were built than in 2019

In 2017, 100 times fewer houses were built than in 2019

**a)** How many houses were built in 2018?

**b)** How many houses were built in 2017?

**c)** How many houses were built between 2017 and 2019?

**9** Alex is thinking of a number.

- She divides the number by 100
- The answer has one more in the hundreds column than in the tens column.
- The total of the digits is 15

What could the number be?

How many different answers can you find?