

Varied Fluency

Step 4: Divide by 100

National Curriculum Objectives:

Mathematics Year 4: (4C6b) [Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers](#)

Differentiation:

Developing Questions to support dividing a 3-digit number by 100. Some pictorial support provided by Base 10.

Expected Questions to support dividing a 4-digit number by 100.

Greater Depth Questions to support dividing a 4-digit number by 100 including a deeper understanding of place value by also looking at dividing numbers by 10 and by 10 again. Includes some use of unconventional partitioning.

More [Year 4 Multiplication and Division](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Divide by 100

1a. Solve the equation below and write the related facts.

$$\begin{array}{c} \begin{array}{ccc} \begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \end{array} & \times & \begin{array}{|c|c|} \hline \blacksquare & \blacksquare \\ \hline \end{array} & = & \begin{array}{|c|} \hline \square \\ \hline \end{array} \\ \hline \begin{array}{|c|} \hline \square \\ \hline \end{array} & \times & \begin{array}{|c|c|} \hline \square & \square \\ \hline \end{array} & = & \begin{array}{|c|} \hline \square \\ \hline \end{array} \\ \hline \begin{array}{|c|} \hline \square \\ \hline \end{array} & \div & \begin{array}{|c|c|} \hline \square & \square \\ \hline \end{array} & = & \begin{array}{|c|} \hline \square \\ \hline \end{array} \\ \hline \begin{array}{|c|} \hline \square \\ \hline \end{array} & \div & \begin{array}{|c|} \hline \square \\ \hline \end{array} & = & \begin{array}{|c|} \hline \square \\ \hline \end{array} \end{array}$$



VF

Divide by 100

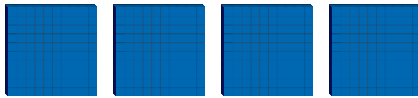
1b. Solve the equation below and write the related facts.

$$\begin{array}{c} \begin{array}{ccc} \begin{array}{|c|c|} \hline \blacksquare & \blacksquare \\ \hline \end{array} & \times & \begin{array}{|c|c|} \hline \cdot & \cdot \\ \hline \end{array} & = & \begin{array}{|c|} \hline \square \\ \hline \end{array} \\ \hline \begin{array}{|c|} \hline \square \\ \hline \end{array} & \times & \begin{array}{|c|c|} \hline \square & \square \\ \hline \end{array} & = & \begin{array}{|c|} \hline \square \\ \hline \end{array} \\ \hline \begin{array}{|c|} \hline \square \\ \hline \end{array} & \div & \begin{array}{|c|c|} \hline \square & \square \\ \hline \end{array} & = & \begin{array}{|c|} \hline \square \\ \hline \end{array} \\ \hline \begin{array}{|c|} \hline \square \\ \hline \end{array} & \div & \begin{array}{|c|} \hline \square \\ \hline \end{array} & = & \begin{array}{|c|} \hline \square \\ \hline \end{array} \end{array}$$



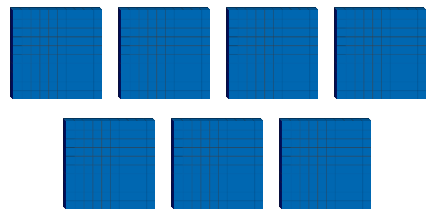
VF

2a. Divide the number below by 100.



VF

2b. Divide the number below by 100.



VF

3a. Choose the correct number to complete the calculation below.

600

660

60

$$\square \div 100 = 6$$



VF

3b. Choose the correct number to complete the calculation below.

30

300

330

$$3 = \square \div 100$$



VF

4a. Here are some division and multiplication calculations.

$$500 \div 100 = 50$$

$$50 \times 100 = 500$$

$$500 \div 100 = 5$$

Tick the correct calculation.



VF

4b. Here are some division and multiplication calculations.

$$800 \div 100 = 80$$

$$800 \div 100 = 8$$

$$80 \times 100 = 800$$

Tick the correct calculation.



VF

Divide by 100

5a. Solve the equation below and write the related facts.

$$86 \times 100 = \square$$
$$\square \times \square = \square$$
$$\square \div \square = \square$$
$$\square \div \square = \square$$



VF

Divide by 100

5b. Solve the equation below and write the related facts.

$$1,700 \div 100 = \square$$
$$\square \div \square = \square$$
$$\square \times \square = \square$$
$$\square \times \square = \square$$



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6a. Divide the number below by 100.

5,300



VF

6b. Divide the number below by 100.

8,200



VF

7a. Choose the correct number to complete the calculation below.

6,200

620

2,600

$$\square \div 100 = 62$$



VF

7b. Choose the correct number to complete the calculation below.

2,300

3,200

2,305

$$23 = \square \div 100$$



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8a. Theo is converting measurements from cm to m.

$$8,400 \div 10 = 840$$

$$8,400 \div 100 = 84$$

$$8,400 \times 10 = 84,000$$

Tick the correct calculation.



VF

8b. Sophie is converting measurements from cm to m.

$$330 \times 10 = 3,300$$

$$3,300 \div 10 = 330$$

$$3,300 \div 100 = 33$$

Tick the correct calculation.



VF

Divide by 100

9a. Solve the equation below and write the related facts.

$$72 \times 10 \times 10 = \square$$

$$\begin{array}{l} \square \times \square = \square \\ \square \div \square = \square \\ \square \div \square \div \square = \square \end{array}$$



VF

Divide by 100

9b. Solve the equation below and write the related facts.

$$5,800 \div 10 \div 10 = \square$$

$$\begin{array}{l} \square \div \square = \square \\ \square \times \square = \square \\ \square \times \square \times \square = \square \end{array}$$



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10a. Write two calculations that would divide the number below by 100.

50 hundreds



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10b. Write two calculations that would divide the number below by 100.

7 thousands and 17 hundreds



VF

11a. Choose the correct number to complete the calculation below.

8 tens and 25 ones

7 tens and 25 ones

8 hundreds and 15 tens

$$9,500 \div 10 \div 10 = \square$$



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11b. Choose the correct number to complete the calculation below.

91 hundreds

8 hundreds and 11 tens

6 hundreds and 21 tens

$$\square \div 10 \div 10 = 91$$



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12a. Ruby is converting her savings of 3,800 1p coins into pounds (£).

$$3,800 \div 100$$

$$3,800 \div 10 \div 10$$

$$3,800 \div 10$$

Tick the correct calculations.



VF

12b. Keaton is converting his savings of 6,900 1p coins into pounds (£).

$$6,900 \div 100$$

$$6,900 \div 10$$

$$6,900 \div 10 \div 10$$

Tick the correct calculations.



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Developing

1a. 400 ; $100 \times 4 = 400$; $400 \div 100 = 4$;

$400 \div 4 = 100$

2a. 4

3a. 600

4a. $500 \div 100 = 5$

Expected

5a. $8,600$; $100 \times 86 = 8,600$; $8,600 \div 100 =$

86 ; $8,600 \div 86 = 100$

6a. 53

7a. $6,200$

8a. $8,400 \div 100 = 84$

Greater Depth

9a. $7,200$; $72 \times 100 = 7,200$; $7,200 \div 100 =$

72 ; $7,200 \div 10 \div 10 = 72$

10a. $5,000 \div 10 \div 10$; $5,000 \div 100$

11a. 7 tens and 25 ones (95)

12a. $3,800 \div 10 \div 10$; $3,800 \div 100$

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Developing

1b. 900 ; $9 \times 100 = 900$; $900 \div 100 = 9$;

$900 \div 9 = 100$

2b. 7

3b. 300

4b. $800 \div 10 = 8$

Expected

5b. 17 ; $1,700 \div 17 = 100$; $17 \times 100 = 1,700$;

$100 \times 17 = 1,700$

6b. 82

7b. $2,300$

8b. $3,300 \div 100 = 33$

Greater Depth

9b. 58 ; $5,800 \div 100 = 58$; $58 \times 100 = 5,800$;

$58 \times 10 \times 10 = 5,800$

10b. $8,700 \div 10 \div 10$; $8,700 \div 100$

11b. 91 hundreds ($9,100$)

12b. $6,900 \div 10 \div 10$; $6,900 \div 100$