Long Division

Dividing by a Two-Digit Number Resulting in a Decimal Answer

591 ÷ 12

Work out the answer to two decimal places.

1

answer section

$$\begin{array}{r|lll} & & 4 & \\ \hline 12 & 5 & 9 & 1 \\ & 4 & 8 & \\ \hline & 1 & 1 & 1 \end{array}$$

First, work out how many 12s there are in 59. The answer to this question is 4, which is written above the 9. We then write the product of 4 and 12 (48) under 59 and subtract giving 11. The 1 is then brought down and written next to 11 to make 111.

2

answer section

$$\begin{array}{r|lll} & & 4 & 9 \\ \hline 12 & 5 & 9 & 1 \\ & 4 & 8 & \downarrow \\ \hline & 1 & 1 & 1 \\ & 1 & 0 & 8 \\ \hline & & & 3 \end{array}$$

Next, work out how many 12s there are in 111. The answer to this question is 9, which is written above the 1. Then, write the product of 9 and 12 (108) under 111 and subtract it, giving 3.

3

answer section

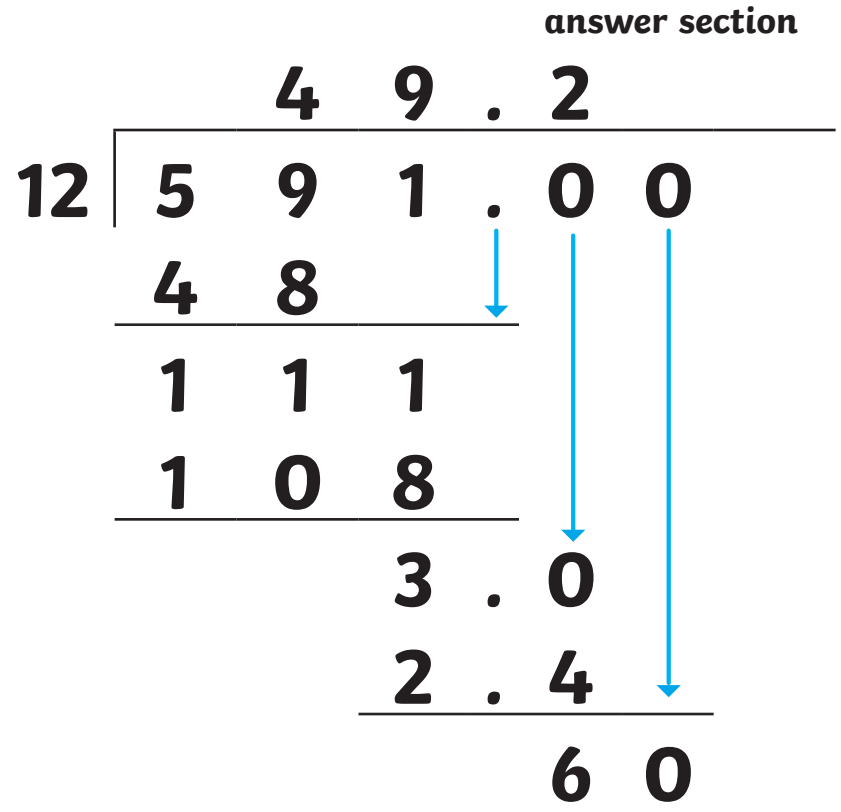
$$\begin{array}{r|lllll} & & 4 & 9 & . & \\ \hline 12 & 5 & 9 & 1 & .0 & 0 \\ & 4 & 8 & \downarrow & & \\ \hline & 1 & 1 & 1 & & \\ & 1 & 0 & 8 & & \\ \hline & & & 3 & .0 & \end{array}$$

Extend 591 into decimals to continue the process of long division.
The 0 in the tenths place is then brought down and written next to 3 to make 30.

Long Division

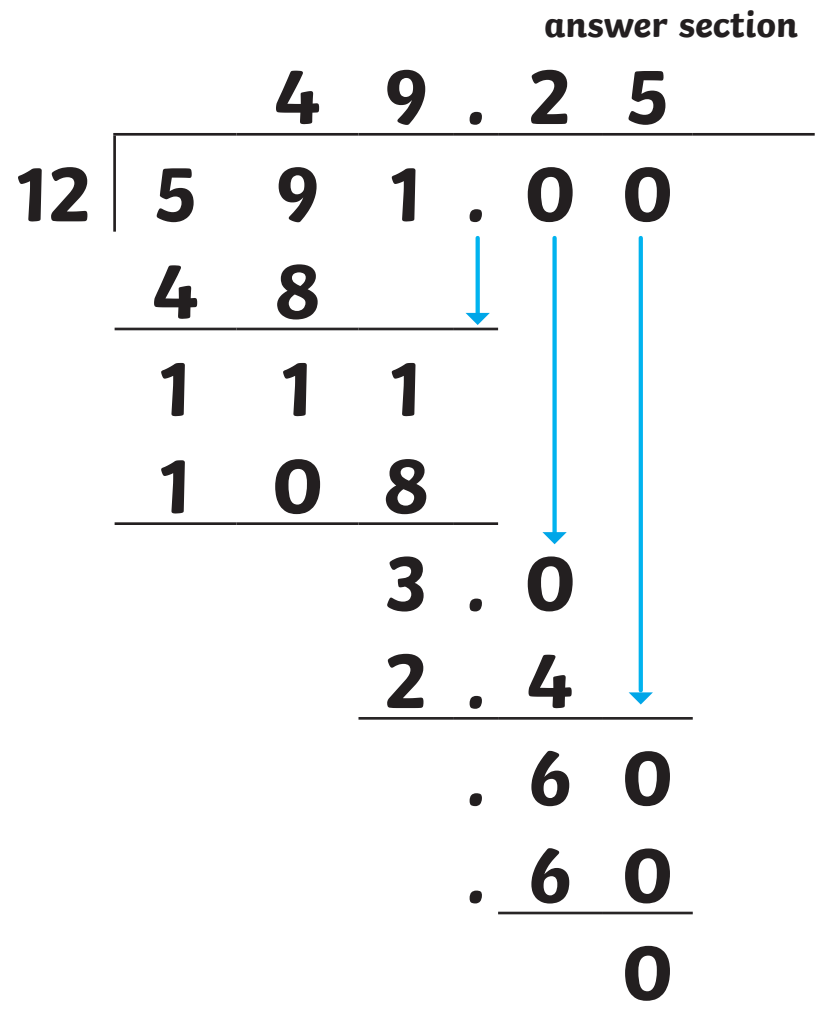
Dividing by a Two-Digit Number Resulting in a Decimal Answer

4



Next, work out how many 12s there are in 30. The answer to this question is 2, which is written above the 0 in the tenths place. Then, write the product of 2 and 12 (24) under 30 and subtract it, giving 6. The 0 is then brought down and written next to 6 to make 60.

5



Next, find out how many 12s there are in 60. The answer to this question is 5, which is written above the 0 in the hundredths place. Then, write the product of 5 and 12 (60) under 60 and subtract it, giving zero.

591 ÷ 12 = 49.25