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

```
         4
12 | 5   9   1
    4   8
    1   1   1
```

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

```
         4   9
12 | 5   9   1
    4   8
    1   1   1
    1   0   8
             3
```

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

```
         4   9   .
12 | 5   9   1  . 0   0
    4   8
    1   1   1
    1   0   8
             3 . 0
```

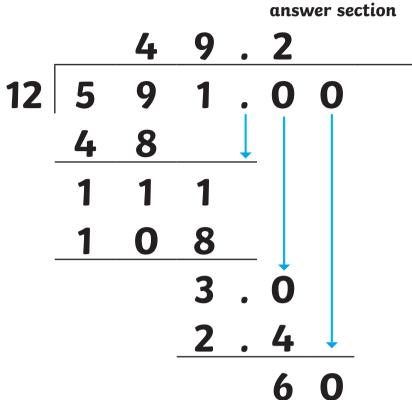Extend 591 into decimals to continue the process of long division. The 0 in the tenths place is then brought down and written next to 3 to make 30.
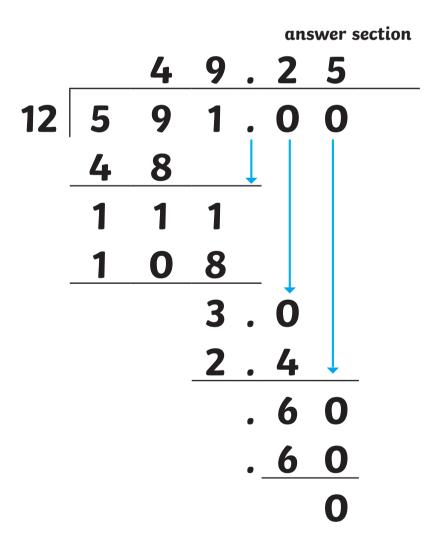
Long Division

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

4

answer section

```
         4  9 . 2
12 | 5  9  1 . 0  0
     4  8
     1  1  1
     1  0  8
            3 . 0
            2 . 4
               6  0
```

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

answer section

```
         4  9 . 2  5
12 | 5  9  1 . 0  0
     4  8
     1  1  1
     1  0  8
            3 . 0
            2 . 4
             . 6  0
             . 6  0
                  0
```

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.

$$591 \div 12 = 49.25$$