Short Division

Dividing by a Two-Digit Number

5284 ÷ 12



First we divide 5 (thousands) by 12. This gives a result of 0 with a remainder of 5. The remainder 5 (thousands) is exchanged for 50 hundreds and regrouped into the hundreds column. This is shown by a small 5 in front of the existing 2 hundreds to make 52 hundreds.

4 ⁺8 12 4 5

Next, we divide 52 (hundreds) by 12. This gives a result of 4 (hundreds) remainder 4. The remainder 4 (hundreds) is exchanged for 40 tens and regrouped into the tens column. This is shown by a small 4 in front of the existing 8 tens to make 48 tens. The 4 is written in the hundreds position of the answer above the line.



Next we divide 48 (tens) by 12. This gives a result of 4. The 4 is written in the tens position of the answer above the line.

3



12 5 2

remainder 4.



4 4 8 4



8 4

Next, we divide 4 (ones) by 12. This cannot be done, so there are four remaining. A zero is placed in the ones answer section as well as

5284 ÷ 12 = 440 r4

Long Division

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

591 ÷ 12

answer section

9

1

1

8

3

Work out the answer to two decimal places.



4

9

8

1

0

12

5

4

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.





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



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.



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.

. <u>6 0</u> <u>0</u> 591 ÷ 12 = 49.25

