Division

Division Facts

Division by zero is not allowed.

ONE											
1÷1=1	2÷1=2	3÷1=3	4÷1=4	5÷1=5	6÷1=6	7÷1=7	8÷1=8	9÷1=9			
TWO											
2÷2=1	4÷2=2	6÷2=3	8÷2=4	10÷2=5	12÷2=6	14÷2=7	16÷2=8	18÷2=9			
THREE											
3÷3=1	6÷3=2	9÷3=3	12÷3=4	15÷3=5	18÷3=6	21÷3=7	24÷3=8	27÷3=9			

Division by 10, 11, and 12

The Division facts for ten, eleven and twelve are listed in the following table.

TEN										
0 ÷ 10 = 0	10 ÷ 10 = 1	20 ÷ 10 = 2	30 ÷ 10 = 3	40 ÷ 10 = 4	50 ÷ 10 = 5					
60 ÷ 10 = 6	70 ÷ 10 = 7	80 ÷ 10 = 8	90 ÷ 10 = 9	100 ÷ 10 = 10						
ELEVEN										
0 ÷ 11 = 0	11 ÷ 11 = 1	22 ÷ 11 = 2	33 ÷ 11 = 3	44 ÷ 11 = 4	55 ÷ 11 = 5					
66 ÷ 11 = 6	77 ÷ 11 = 7	88 ÷ 11 = 8	99 ÷ 11 = 9	110 ÷ 11 = 10	121 ÷ 11 = 11					
TWELVE										
0 ÷ 12 = 0	12 ÷ 12 = 1	24 ÷ 12 = 2	36 ÷ 12 = 3	48 ÷ 12 = 4	60 ÷ 12 = 5					
72 ÷ 12 = 6	84 ÷ 12 = 7	96 ÷ 12 = 8	108 ÷ 12 = 9	120 ÷ 12 = 10	132 ÷ 12 = 11					
144 ÷ 12 = 12										



Division Terms

Dividend : The dividend is the number that is being divided.

Divisor : The divisor is the number that the dividend will be divided by.

Quotient : The quotient is the number of times the divisor will go into the dividend.

Remainder : The remainder is a number that is less than the divisor and is too small to be divided by the divisor to form a whole number.

Dividing by Repeated Subtractions

- The result of division is to separate a group of objects into several equal smaller groups. The starting group is called the dividend.
- The number of groups that are separated out is called the divisor.
- The number of objects in each smaller group is called the quotient.

The results of division can be obtained by repeated subtraction. If we are separating 24 objects into 6 equal groups of four, we would take (or subtract) four objects at a time from the large group and place them in 6 equal groups. In mathematical terms this would be: 24-4-4-4-4.

Dividing Tens

How to divide a number that consists of even tens by another number:

- Move the decimal point of the dividend one place to the left
- Do the division.
- Move the decimal point of the quotient one place to the right

Dividing Hundreds

How to divide a number that consists of even hundreds by another number:

- Move the decimal point of the dividend two places to the left
- Do the division.
- Move the decimal point of the quotient two places to the right



To divide a three digit number by a one digit number

413 ÷ 7= ?

• Place the divisor before the division bracket and place the dividend under it.

7)413

- Examine the first digit of the dividend (4). It is smaller than 7 so it can't be divided by 7 to produce a whole number. Next take the first two digits of the dividend (41) and determine how many 7's it contains. In this case 41 holds five sevens (5*7=35) but not six (6*7=42). Place the 5 above the division bracket.
- Multiply the 5 by 7 and place the result (35) below the 41 of the dividend.

• Draw a line under the 35 and subtract it from 41 (41-35=6). Bring down the 6 from the 416 and place it to the right of the other 6.

 Divide 63 by 7 and place that answer above the division bracket to the right of the five.



• Multiply the 9 of the quotient by the divisor (7) to get 63 and place this below the 63. Subtract 63 from 63 to give an answer of 0.

$$\begin{array}{r} 59 \\
 7) 413 \\
 35 \\
 63 \\
 \underline{63} \\
 0
 \end{array}$$

