

Columbia Multiplication Facts

For short division sums you can use your times tables.

You can work this out by...

$$?x7=42$$

$$6x7=42$$
 so $42\div7=6$

Tous Skip Counting

3, 6, 9, 12, 15, 18, 21, 24, 27

That is 9 threes so...

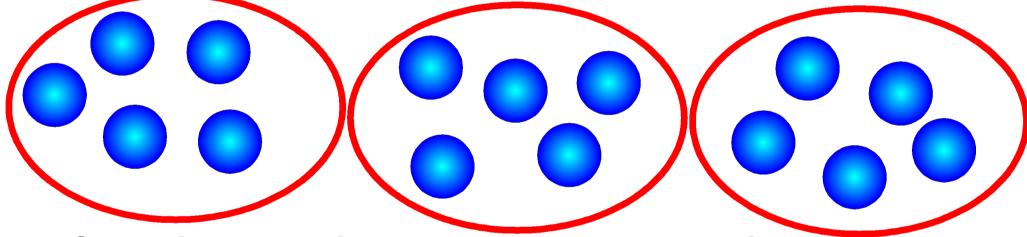
Use Repeated Subtraction

6 could be subtracted 3 times so...

$$18 \div 6 = 3$$

Draw a Picture 15÷3=?

There are 15 in all and 3 groups...



After sharing them out we can see there are 5 in each group.

$$15 \div 3 = 5$$

Cividing by 10

To divide a number by 10, move the numbers one place to the right, adding a 0 if necessary.

$$14 \div 10 = 1.4$$

$$2.6 \div 10 = 0.26$$

Cividing by 100

To divide a number by 100, move the numbers two places to the right, adding zeros if necessary.

$$72 \div 10 = 0.72$$

Dividing by 20

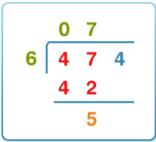
To divide a number by 20, divide by two first, then divide by 10.

Cheng Division

If the numbers are too hard to do in your head you can write it down. This way is called long division.

6 doesn't go into 4 so put 0

6 goes into 47 seven times



7 x 6 = 42.

Take 42 away
from 47 to
get the
remainder of
5.

Bring down the next digit, the 4

6 into 54 goes 9 times with no remainder

Chunking Method

175

125

50

75

25

25

10x5

10x5

10x5

5x5

We are working out how many groups of a number will fit into another number by making chunks, using multiples we know.

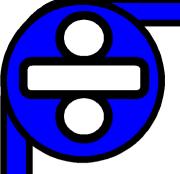
35 groups of

5 have been

subtracted

Therefore

175÷5=35



Chunking With Remainders

73

- 50 (10x5)

23

-<u>20</u> (4x5)

How many 5s have been subtracted?

14 sets of 5, with 3 left over.

 $73 \div 5 = 14 \text{ r}$

Ousing Factors

Numbers can be split into factors to make division easier.

If I divide by two numbers successively, I get the same answer as dividing by their product.

For example, $(48 \div 3) \div 2$ is the same as $48 \div 6$.

Example: 2

$$240 \div 8 = 30$$

$$30 \div 2 = 15$$

