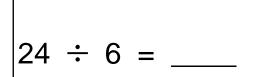
SMARTIE DIVISION

How many sweets are in a tube of Smarties? Before you open the tube, have a guess. How many do you estimate? Now open the tube and count the sweets. How far out were you? **Division by groups** Count out 30 Smarties. If there are any left over you can eat them! Set them out into groups of 10. How many groups do you have? There are ___ groups of 10 So ___ x __ = 30 and $30 \div _ = __$ Now try groups of 3 There are ___ groups of 3 So $x = and \div =$ Now try groups of 5 There are ____ groups of 5 So ____ x ___ = ___ and ___ ÷ ___ = ___ Now try groups of 2 There are ___ groups of 2 So $x = and \div =$ Now try groups of 6 There are ___ groups of 6

Well Done! You can now eat two Smarties.

So ___ x ___ = ___ and ___ ÷ ___ = ___

Now try making these divisions with your Smarties



Division by repeated subtraction



Count out 12 Smarties

You need to share them between 3 people.

How many 3's can you take away?

$$12 - 3 = 9$$

$$9 - 3 = 6$$

$$6 - 3 = 3$$

$$3 - 3 = 0$$

You can take away 4 lots of 3.

So each person will have ____.

As you are one of the 3 people, you can eat your share of the 12!

How many Smarties have you now got left from the 12?

Put these together with the other Smarties.

Now share <u>all</u> the remaining Smarties between 8 people.

You can take away ____ lots of 8

So each person will have ____.

As you are one of the 8 people, you can eat your share!

Remainders



I hope you have not been cheating because you should have 21 Smarties left!

Divide them by 5.

There are ____ groups of 5 and ____ left over.

This can be written as $21 \div 5 = 4 \text{ r } 1$ (the 'r' stands for remainder)

Now divide them by 6

There are ____ groups of 6 and ____ left over.

This can be written as $21 \div 6 =$

Now divide them by 7

There are ____ groups of 7 and ____ left over.

This can be written as $21 \div 7 =$

So 21 can be split exactly into groups of seven with no remainder.

Now do these examples while you eat the rest of the Smarties!

$$37 \div 5 =$$