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 ÷ ___ = ___

Now try groups of 3
There are ___ groups of 3

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

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 ___ ÷ ___ = ___

Now try groups of 6
There are ___ groups of 6

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

Well Done! You can now eat two Smarties.

This resource kindly contributed by Sue Rees, Pembrokeshire College.

Now try making these divisions with your Smarties

24 ÷ 6 = _____	18 ÷ 2 = _____
12 ÷ 3 = _____	24 ÷ 8 = _____

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 ____.

____ ÷ 3 = ____

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.

_____ - 8 = _____

_____ - 8 = _____

_____ - 8 = _____

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!

This resource kindly contributed by Sue Rees, Pembrokeshire College.

N1/E3.6 Divide 2-digit whole numbers by single-digit whole numbers & interpret remainders. Understand division (a) is repeated subtraction (b) is the inverse of multiplication(c) is not commutative (d) and the concept of remainders, and that they need to be interpreted in context when solving problems.

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 ÷ 5 = 4 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 ÷ 6 = _____

Now divide them by 7

There are ____ groups of 7 and ____ left over.

This can be written as 21 ÷ 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!

35 ÷ 5 = _____

37 ÷ 5 = _____

24 ÷ 6 = _____

29 ÷ 6 = _____

16 ÷ 4 = _____

18 ÷ 4 = _____

20 ÷ 4 = _____

50 ÷ 10 = _____

54 ÷ 10 = _____

57 ÷ 10 = _____

This resource kindly contributed by Sue Rees, Pembrokeshire College.

N1/E3.6 Divide 2-digit whole numbers by single-digit whole numbers & interpret remainders. Understand division (a) is repeated subtraction (b) is the inverse of multiplication(c) is not commutative (d) and the concept of remainders, and that they need to be interpreted in context when solving problems.