$18 \div \underline{\quad} = \underline{\quad}$

How many different ways can you find of getting from 0 to 18 on a number line in equal groups?

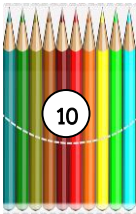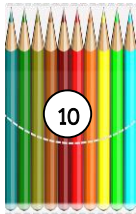How many equal jumps do you need to make?

18 jumps	of 1
_____ jumps	of _____
_____ jumps	of _____
_____ jumps	of _____
_____ jumps	of _____
_____ jumps	of _____

Leanna has 30 pencils.

| 10 | 10 | 10 |

Can she divide her pencils by 1, 2, 3, 4, 5, 6 and 7?

Have a go and see if you can divide 30 by these numbers.

$30 \div 1 = \underline{\quad}$

$30 \div 2 = \underline{\quad} \ldots$

$18 \div \underline{\quad} = \underline{\quad}$

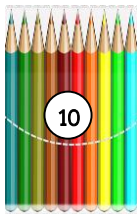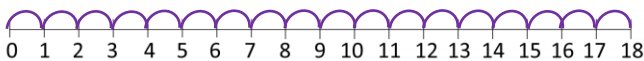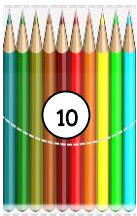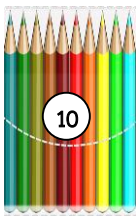How many different ways can you find of getting from 0 to 18 on a number line in equal groups?

How many equal jumps do you need to make?

18 jumps	of 1
9 jumps	of 2
6 jumps	of 3
3 jumps	of 6
2 jumps	of 9
1 jump	of 18

Leanna has 30 pencils.

| 10 | 10 | 10 |

Can she divide her pencils by 1, 2, 3, 4, 5, 6 and 7?

Have a go and see if you can divide 30 by these numbers.

$30 \div 1 = 30$

$30 \div 2 = 15$

$30 \div 3 = 10$
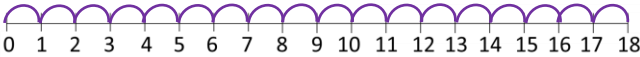
$30 \div 4 = X$

$30 \div 5 = 6$

$30 \div 6 = 5$

$30 \div 7 = X$

?   18 ÷ _____ = _____   **?**

How many different ways are there of getting from 0 to 18 on a number line in equal groups?

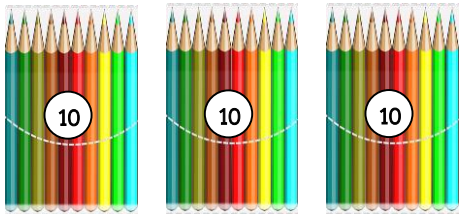0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Don't forget they need to be equal jumps and you must land on 18. I have done the first one for you!

Can you write the division sentence for each way?

Leanna has 30 pencils.

10   10   10

Can she divide her pencils by 1, 2, 3, 4, 5, 6 and 7?

Have a go and see if you can divide 30 by these numbers.

Will all of them work in equal groups? Explain.

?   18 ÷ _____ = _____   **?**

How many different ways are there of getting from 0 to 18 on a number line in equal groups?
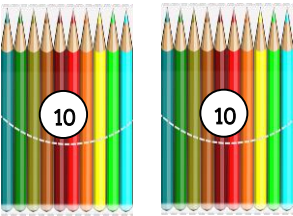

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Don't forget they need to be equal jumps and you must land on 18.

Can you write the division sentence for each way?

18 jumps of 1	18 ÷ 1 = 18
9 jumps of 2	18 ÷ 2 = 9
6 jumps of 3	18 ÷ 3 = 6
3 jumps of 6	18 ÷ 6 = 3
2 jumps of 9	18 ÷ 9 = 2
1 jump of 18	18 ÷ 18 = 1

Leanna has 30 pencils.

10   10   10

imps of 1	18 ÷ 1 =
imps of 2	18 ÷ 2 =
imps of 3	18 ÷ 3 =
imps of	8 ÷ 6 =
imps of 9	18 ÷ 9 =
mp of 18	18 ÷ 18 =

Can she divide her pencils by 1, 2, 3, 4, 5, 6 and 7?

Have a go and see if you can divide 30 by these numbers.

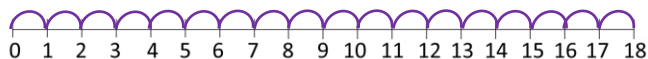| 30 ÷ 1 = 30 | 30 ÷ 5 = 6 |
30 ÷ 2 = 15	30 ÷ 6 = 5
30 ÷ 3 = 10	30 ÷ 7 = X
30 ÷ 4 = X	

Will all of them work in equal groups? No
Explain. Not all of the groups would be equal. This is because 4 and 7 are not multiples of 30.

? 18 ÷ _____ = _____ **?**

How many different ways are there of getting from 0 to 18 on a number line in equal groups?

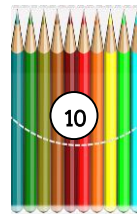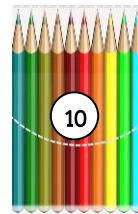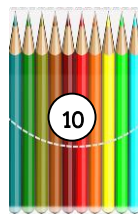0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Don't forget they need to be equal jumps and you must land on 18.

Can you write the division sentence for each way?

What numbers can 18 not be divided by? Explain

Leanna has 30 pencils.

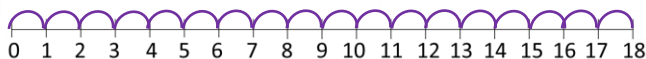10   10   10

Can she divide her pencils by 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10?

Have a go and see if you can divide 30 by these numbers.

Will all of them work in equal groups? What did you notice? Explain.

18 ÷ _____ = _____

How many different ways are there of getting from 0 to 18 on a number line in equal groups?

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

Don't forget they need to be equal jumps and you must land on 18.
Can you write the division sentence for each way?

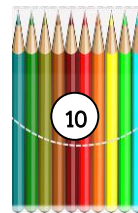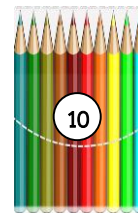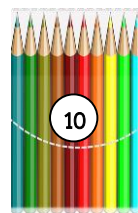| 18 jumps of 1 | $18 \div 1 = 18$ |
9 jumps of 2	$18 \div 2 = 9$
6 jumps of 3	$18 \div 3 = 6$
3 jumps of 6	$18 \div 6 = 3$
2 jumps of 9	$18 \div 9 = 2$
1 jump of 18	$18 \div 18 = 1$

What numbers can 18 not be divided by? Explain
4, 5, 7, 8, 10, 11, 12, 13, 14, 15, 16, 17.
Not all of the groups would be equal. This is because these numbers are not multiples of 30

Leanna has 30 pencils.

10   10   10

Can she divide her pencils by 1, 2, 3, 4, 5, 6, 7, 8, 9 and 10?
Have a go and see if you can divide 30 by these numbers.

$30 \div 1 = 30$	$30 \div 5 = 6$	$30 \div 9 = X$
$30 \div 2 = 15$	$30 \div 6 = 5$	$30 \div 10 = 3$
$30 \div 3 = 10$	$30 \div 7 = X$	
$30 \div 4 = X$	$30 \div 8 = X$	

Will all of them work in equal groups? No
What did you notice? Explain.
Not all of the groups would be equal. This is because 4, 7, 8 and 9 are not multiples of 30. There is a pattern, when dividing 30 by 1 the answer is the biggest it can be. As the dividing number gets bigger the answer gets smaller. Also, the dividing numbers and answers swap places in the calculations 30÷10=3, 30÷3=10 and 30÷5=6, 30÷6=5.