

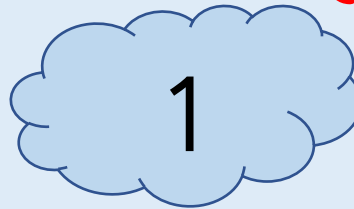
EQUAL
GROUPS

REPEATED
ADDITION

Multiplication

ARRAYS

COUNTING IN 10S



COUNTING IN 5S

COUNTING IN 2S

Can you count in tens?

multiplication

1

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

What's the same and what's different about counting in 1s and counting in 10s?

How many penguins are there altogether?

multiplication

1

10
20
30
40
50
60
70
80
90
100



There are ____ penguins on each block of ice.

There are ____ blocks of ice.

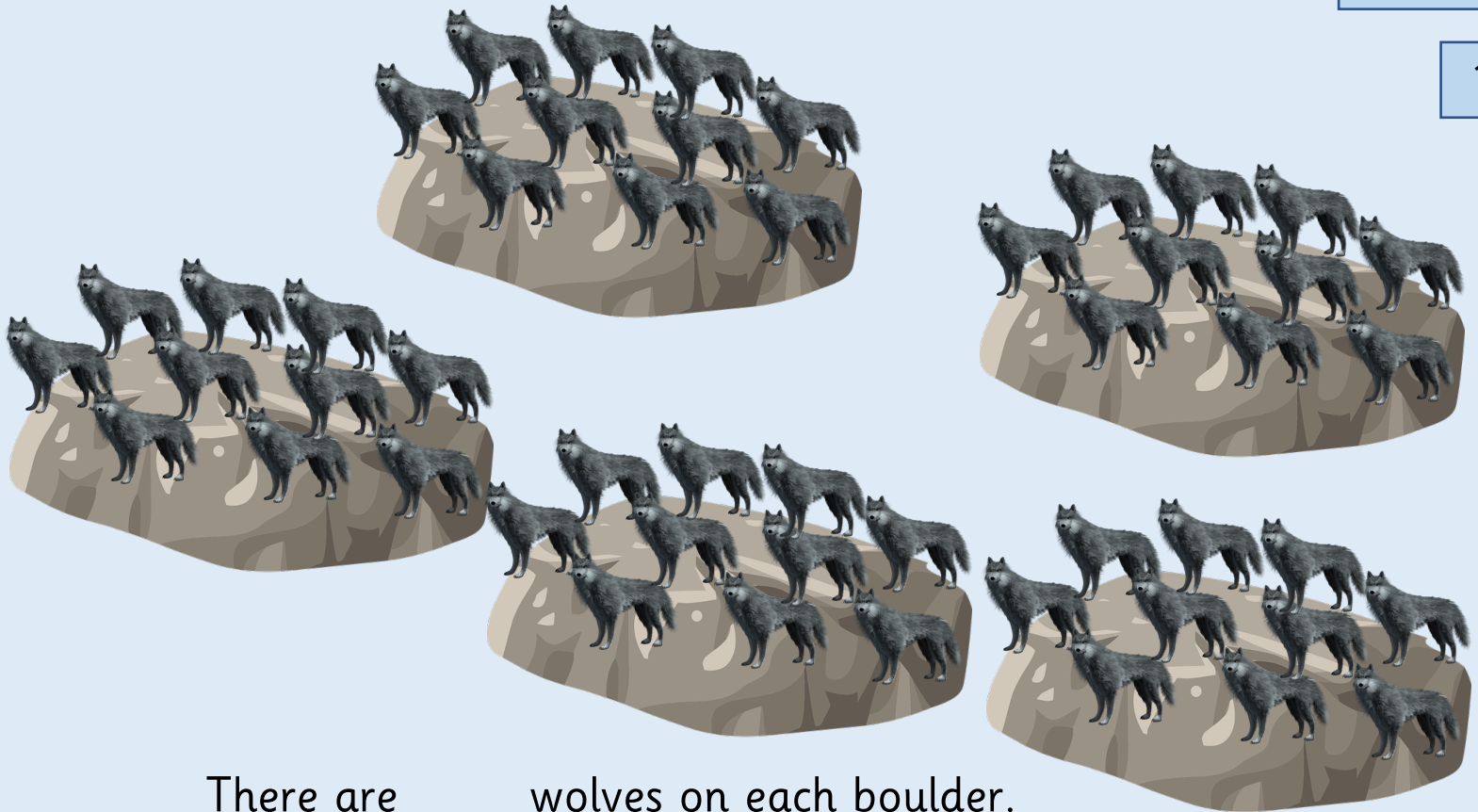
There are ____ penguins altogether.

How many wolves are there altogether?

multiplication

1

10
20
30
40
50
60
70
80
90
100



There are ____ wolves on each boulder.

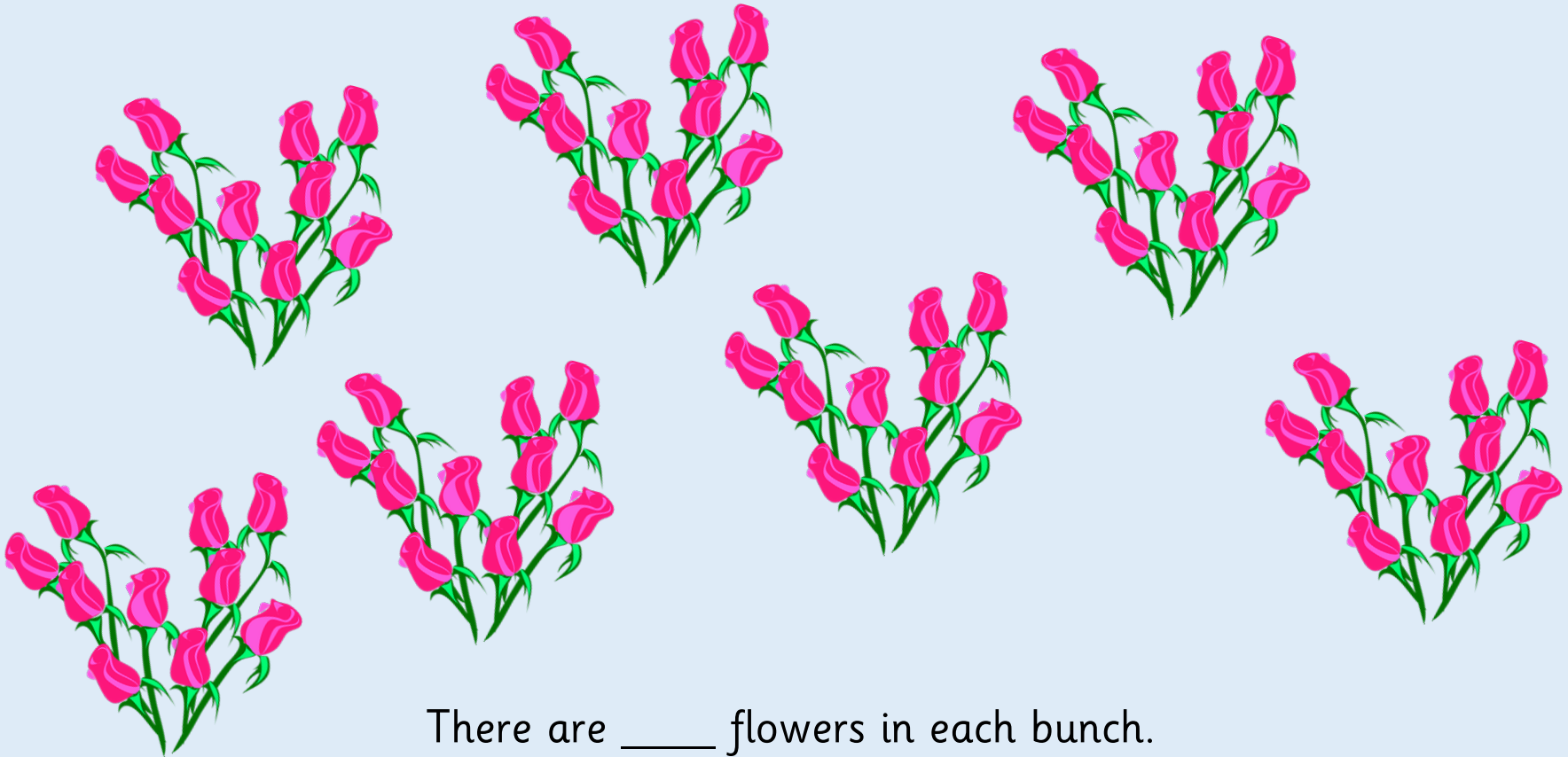
There are ____ boulders.

There are ____ wolves altogether.

How many flowers are there altogether?

multiplication

1



There are ____ flowers in each bunch.

There are ____ bunch.

There are ____ flowers altogether.

Look at the beads.
Count how many in tens.

multiplication

1



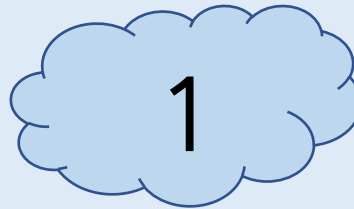
Can you count backwards in tens?

UNEQUAL

EQUAL

Equal groups

=



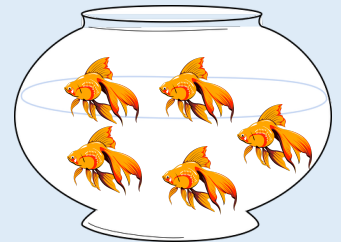
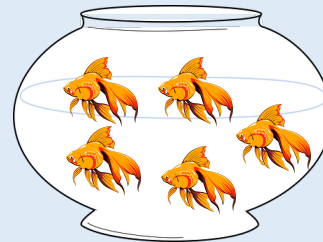
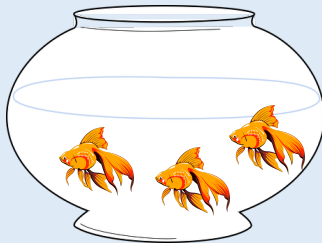
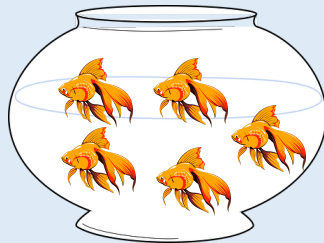
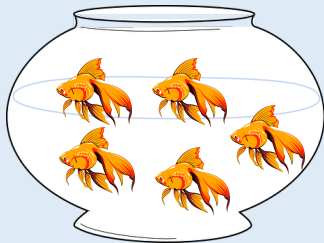
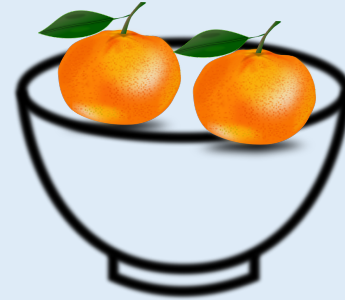
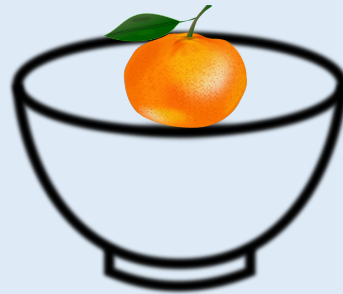
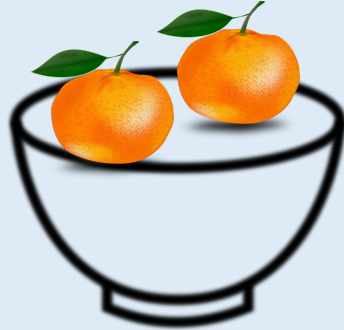
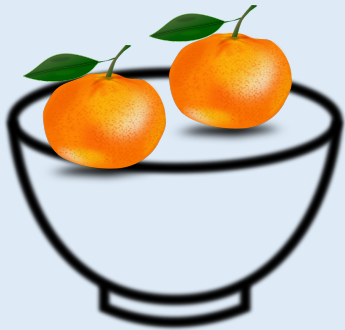
THE SAME

EQUIVALENT

Look at the groups below.
Are they equal or unequal?

multiplication

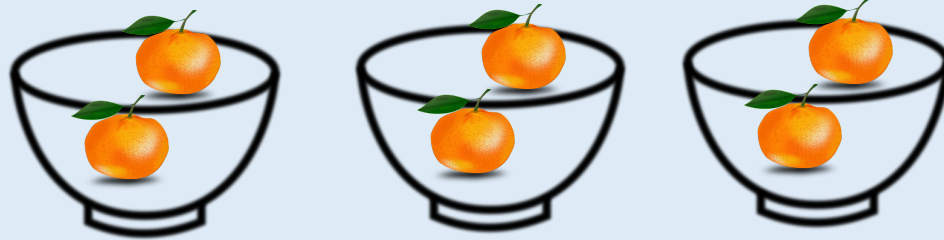
1



Complete the sentences.

multiplication

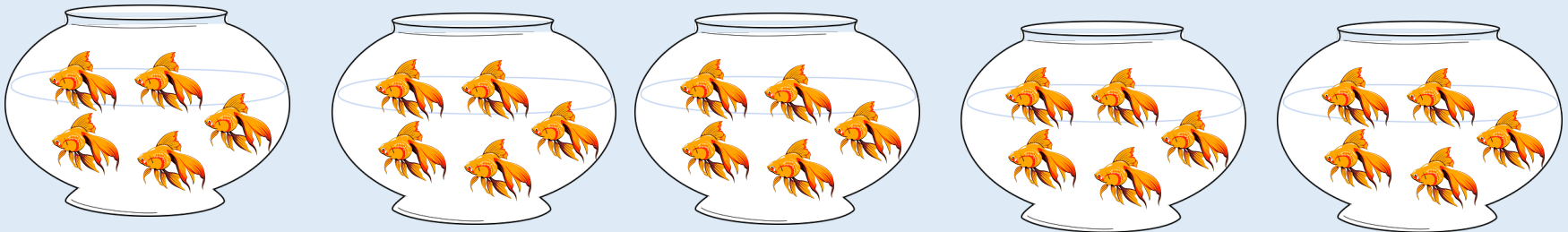
1



There are ____ groups of ____ tangerines.



There are ____ groups of ____ eggs.



There are ____ groups of ____ fish.

Add the equal groups.

multiplication

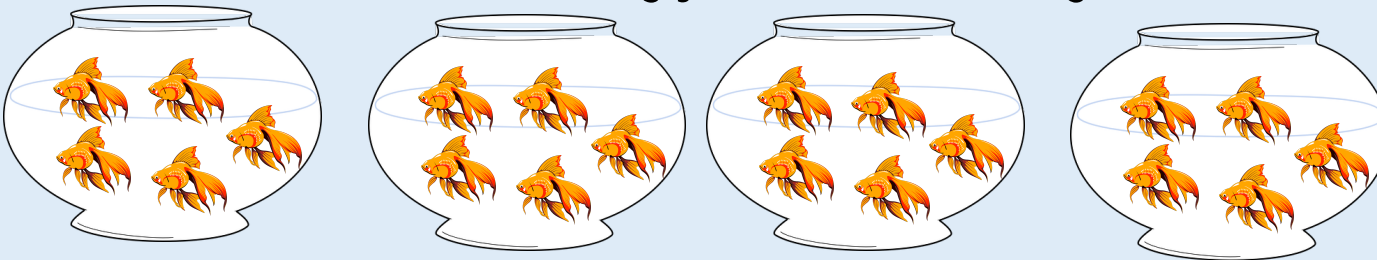
1

How many eggs are there altogether?



$$2 + 2 + 2 + 2 + 2 =$$

How many fish are there altogether?



$$5 + 5 + 5 + 5 =$$

Add the equal groups.

multiplication

1

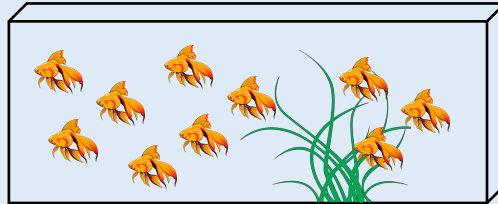
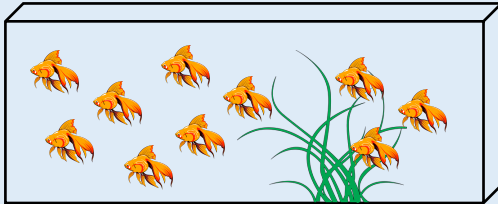
How many wheels are there altogether?



$$2 + 2 + 2 =$$

There are _____ wheels.

How many fish are there altogether?



$$10 + 10 =$$

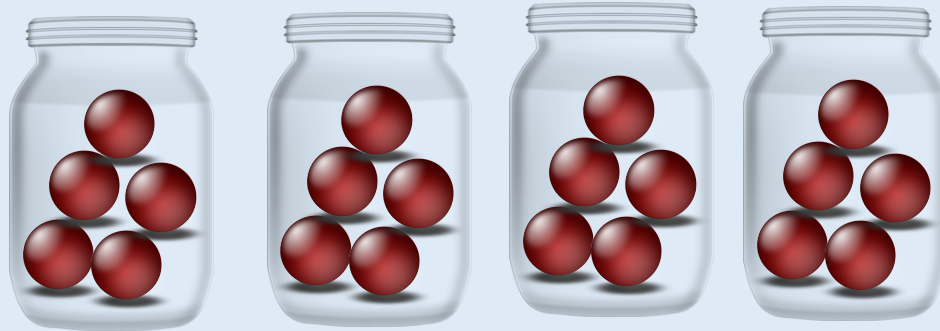
There are _____ fish.

Add the equal groups.

multiplication

1

How many marbles are there altogether?
Complete the sentences.



$$5 + 5 + 5 + 5 =$$

There are _____ groups of _____ apples which is equivalent to _____.

COLUMNS

ROWS

Arrays

=

1

EQUAL

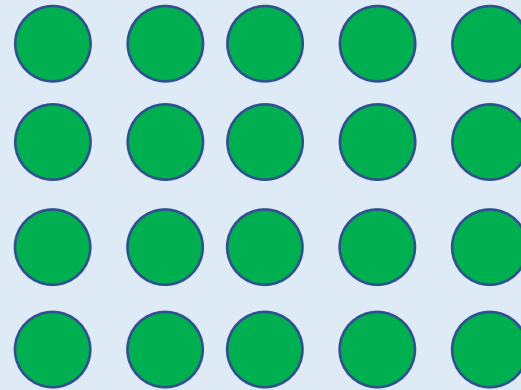
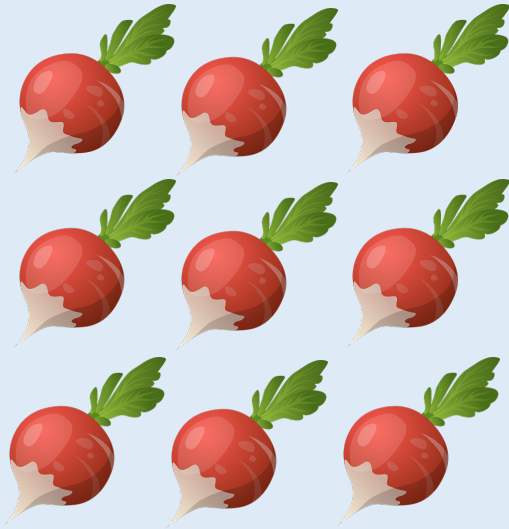
EQUIVALENT

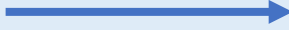
What is an array?

multiplication

1

Objects or numbers in rows and columns.
It makes it easier for us to count.



Rows go across. 

Columns go down. 

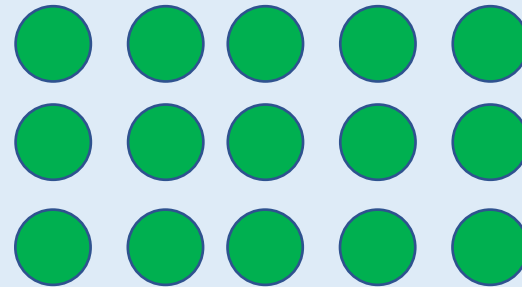
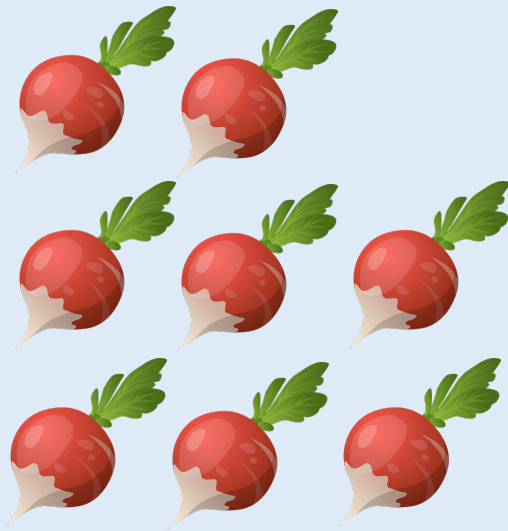
How many columns and rows do the above arrays have?

Remember your equal groups!

multiplication

1

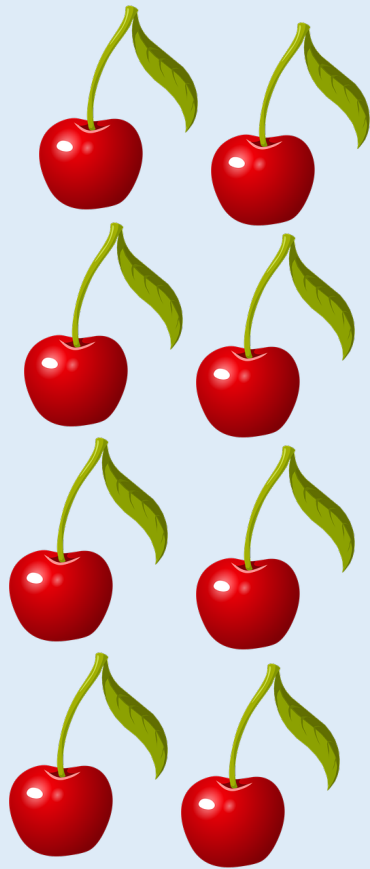
Check these arrays.
Are they correct?
Why?



Complete the sentences.

multiplication

1



There are _____ cherries in each row.

There are _____ rows.

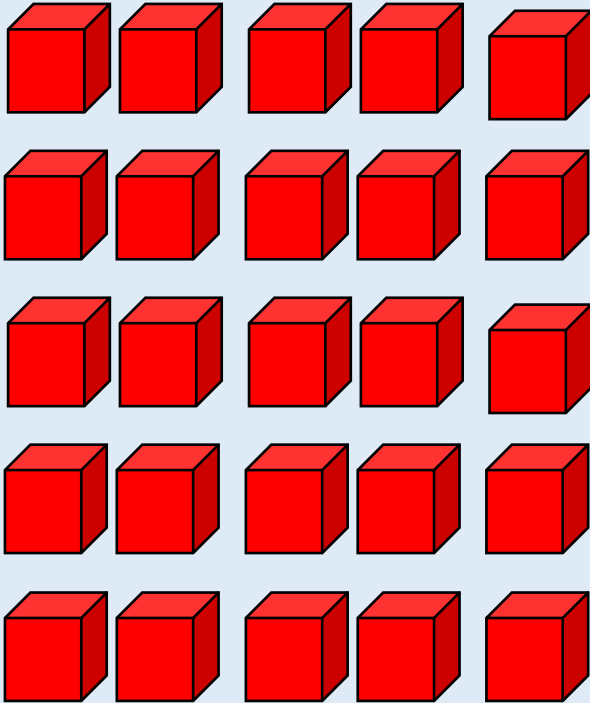
_____ + _____ + _____ + _____ =

There are _____ cherries altogether.

Complete the sentences.

multiplication

1



There are _____ cubes in each row.

There are _____ rows.

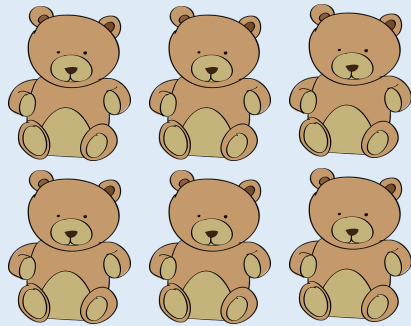
_____ + _____ + _____ + _____ + _____ =

There are _____ cubes altogether.

Complete the sentences.

multiplication

1



There are _____ cubes in each column.

There are _____ column.

_____ + _____ + _____ =

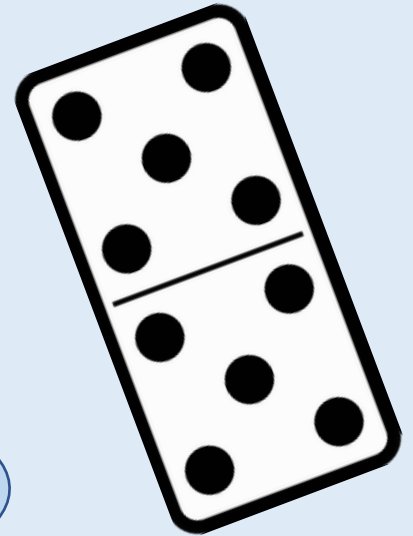
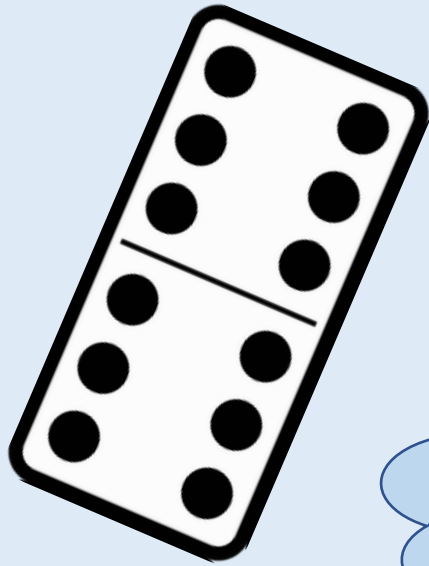
There are _____ bears altogether.

Complete the table.

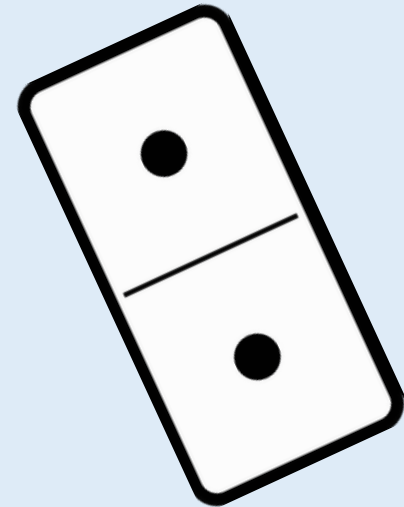
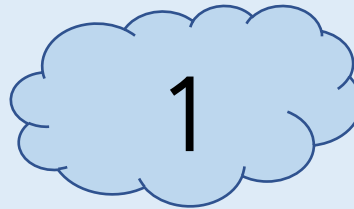
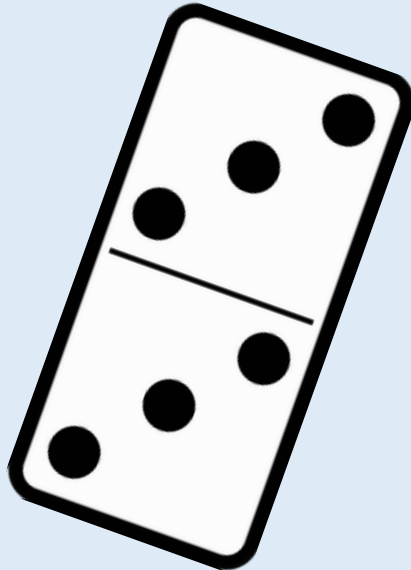
multiplication

1

Array	Columns	Rows	Adding
	6 columns 2 cookies in each column	2 rows 6 cookies in each row	$2 + 2 + 2 + 2 + 2 + 2 = 12$ $6 + 6 = 12$
	___ columns ___ balls in each column	___ rows ___ balls in each column	
	___ columns ___ balls in each column	___ rows ___ balls in each column	
	4 columns 5 hearts in each column	5 rows 4 hearts in each row	



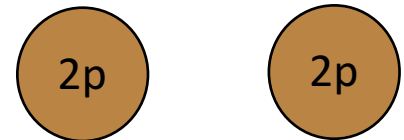
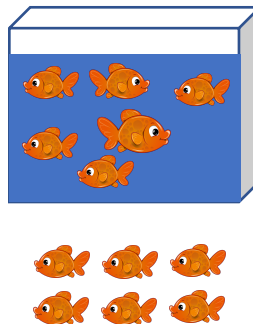
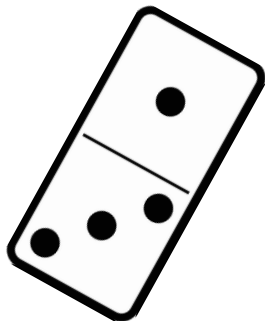
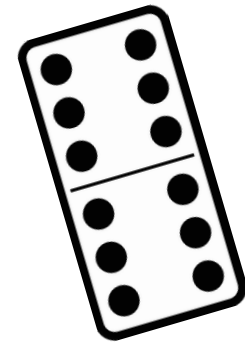
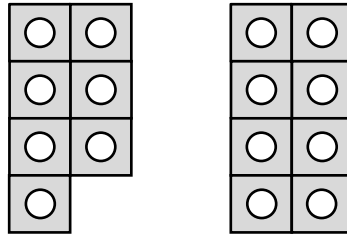
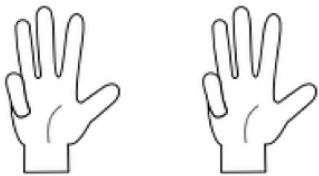
Doubles



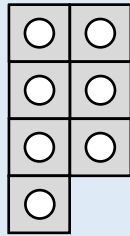
Look at the pictures.
Which pictures show doubles?
Which pictures do not show doubles?

multiplication

1

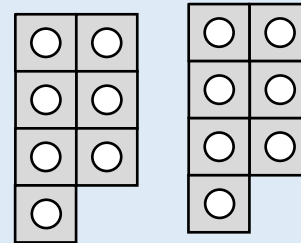


Look at the number shapes.
Complete the sentences.

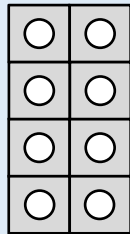


7

Double 7 is 14.

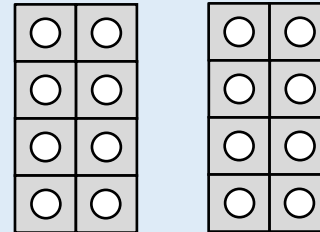


$$7 + 7 = 14$$



8

Double 8 is _____.



You take a number shape and double it.
Complete the sentence like above.

Look at the table. Complete and continue it.

multiplication

1

Representation	Different representation	Double
		Double 1 is 2 $1 + 1 = 2$
		Double 2 is ____ $2 + 2 = \underline{\hspace{1cm}}$
		Double ____ is ____ $\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$
		Double ____ is ____ $\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$
		Double ____ is ____ $\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$

Making equal groups

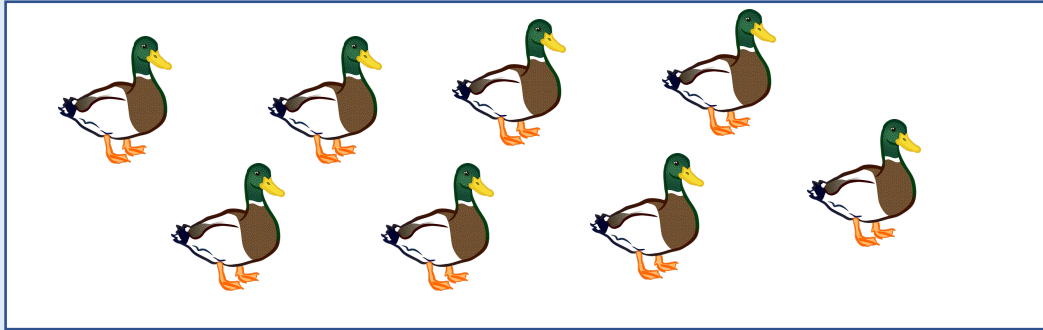
1

How many equal groups?

division

1

How many equal groups of 2 can you make with the ducks?



There are ____ groups of 2 ducks.

If you had 12 ducks, how many equal groups of 2 could you make?
Use counters to help you.

How many equal groups?

division

How many equal groups of 5 can you make with the jars?

1



There are ____ groups of 5 jars.

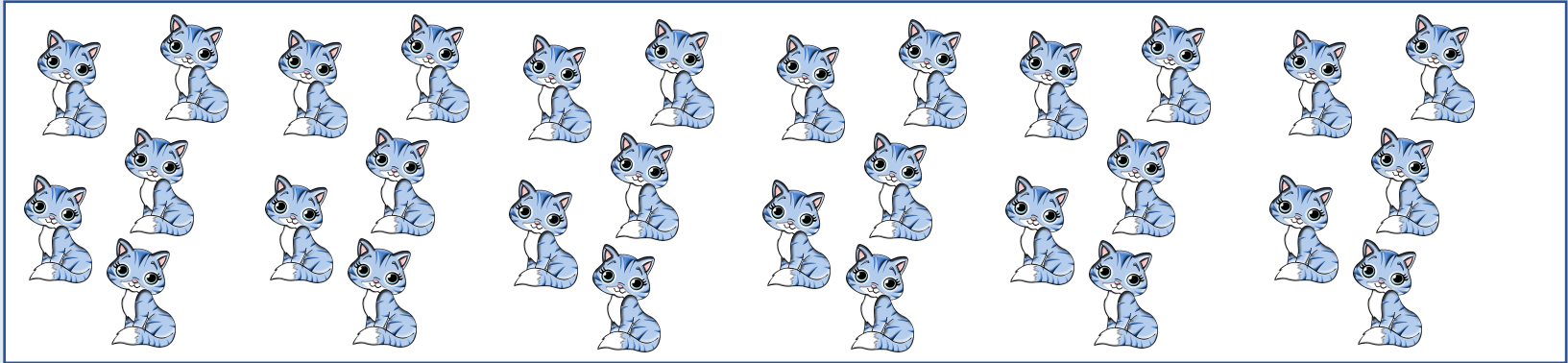
If you had 10 jars, how many equal groups of 5 could you make?
Use counters to help you.

How many equal groups?

division

How many equal groups of 10 can you make with the cats?

1



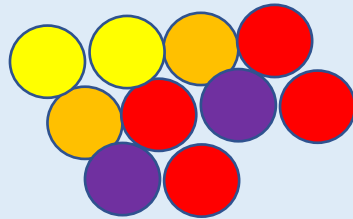
There are ____ groups of 10 cats.

If you had 20 cats, how many equal groups of 10 could you make?
Use counters to help you.

Get 10 cubes or counters.

division

1



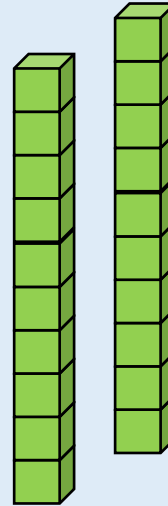
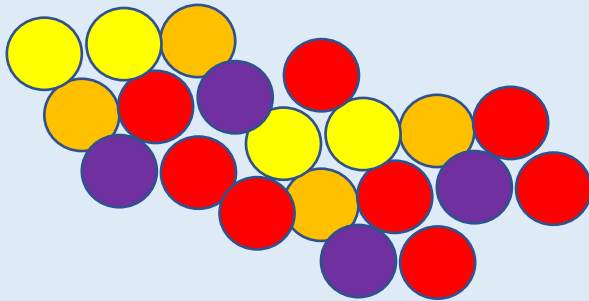
Complete the sentences.

I can make _____ equal groups of 2.

I can make _____ equal groups of 5.

I can make _____ equal groups of 10.

Get 20 cubes or counters.



Complete the sentences.

I can make _____ equal groups of 2.

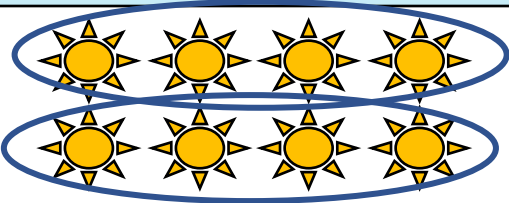
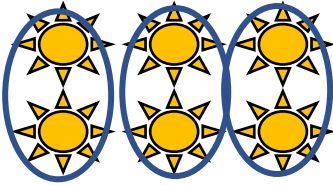
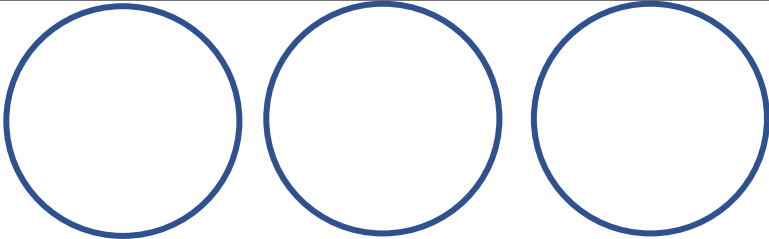
I can make _____ equal groups of 5.

I can make _____ equal groups of 10.

Complete the table.

division

1

Representation	Description
	8 has been sorted into 2 equal groups of 4.
	_____ has been sorted into _____ equal groups of _____.
	12 has been sorted into 3 equal groups of 4.
	_____ has been sorted into _____ equal groups of _____.

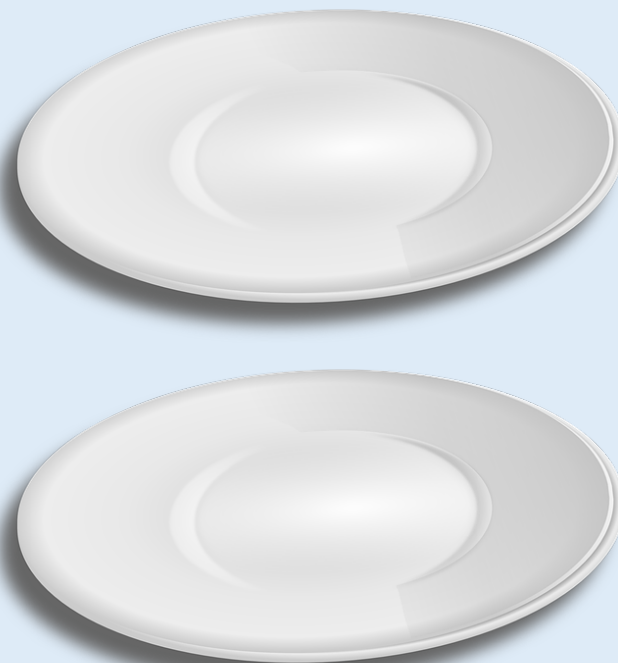
Sharing equally

division

1

Share the cupcakes equally between 2 plates.
We can use counters to help us.

_____ cakes shared equally between 2 is _____ .



Sharing equally

division

1

Share the doughnuts equally between 2 plates.
We can use counters to help us.

_____ doughnuts shared equally between 2 is _____ .



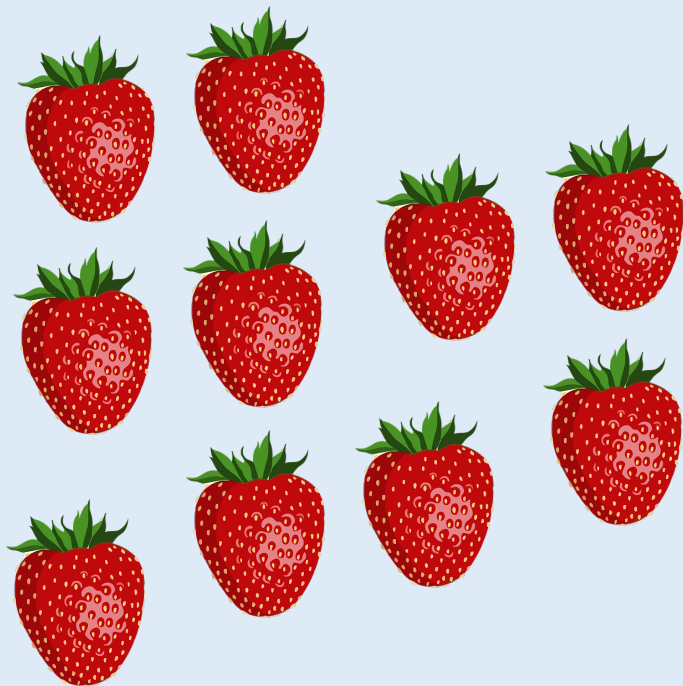
Sharing equally

division

1

Share the strawberries equally between 5 bowls.
We can use counters to help us.

_____ strawberries shared equally between 5 is _____ .

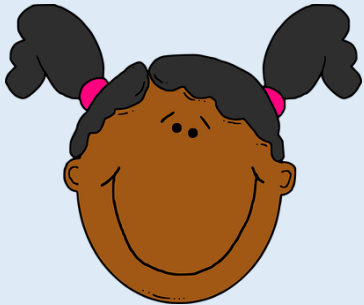


Sharing equally

division



Craig has 14 apples. He shares them equally between 2 bowls.
How many are in each bowl? Can you use counters to solve this?
Can you draw out this problem?



Talia has 25 bananas. She shares them equally between 5 boxes.
How many are in each box? Can you use counters to solve this?
Can you draw out this problem?



Karen has 20 marbles. She shares them equally between 10 jars.
How many are in each jar? Can you use counters to solve this?
Can you draw out this problem?