



Multiplying by 0 and 1

If you multiply by 0, you get 0.

5 groups, each has 0.



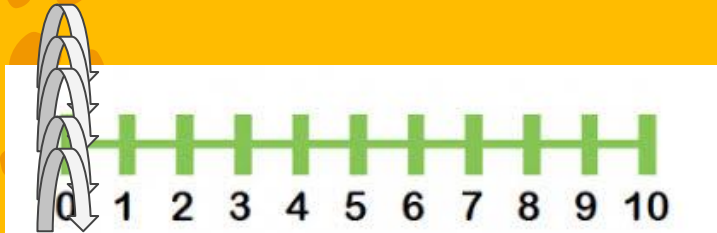
$$5 \times 0 = 0$$

Zero groups, or no groups

$$0 \times 5 = 0$$

Take zero jumps of 5 steps.

Take 5 jumps of 0 steps.





Remember, multiplication means you have
so many of the same-sized groups.

How many groups

5

x

How many in each
group

0

=

0





Now, your turn!

Draw a picture and write it out as repeated addition.



Example for how to set it up:

3 groups, each has 0.



$$3 \times 0 = 0$$

$$0 + 0 + 0 = 0$$

Zero groups, or no groups

$$0 \times 3 = 0$$

A large, white, hand-drawn brushstroke in the top left corner, resembling a cloud or a burst of paint.

Your turn...

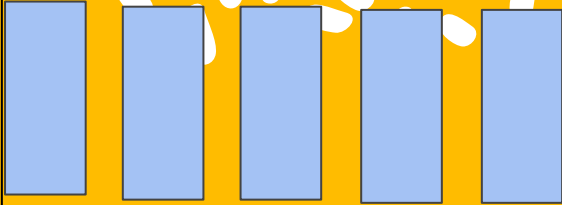
Work with a partner. Take turns creating your own number sentences and solving them.

*Remember the numbers we are using need to be the same.



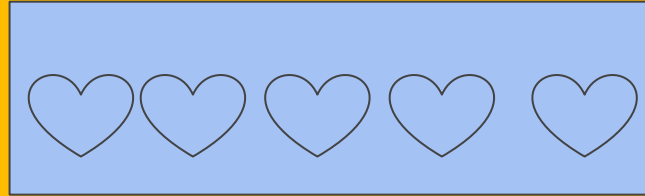
If you multiply by 1, you get that number.

5 groups, each has 1.



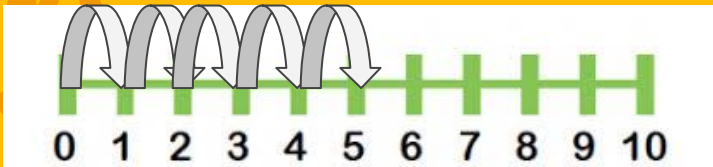
$$5 \times 1 = 5$$

1 group of 5

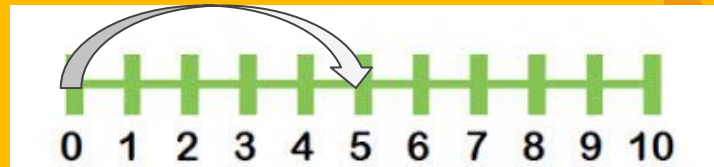


$$0 \times 5 = 0$$

Take 5 jumps of 1 step.



Take 1 jump of 5 steps.





Remember, multiplication means you have
so many of the same-sized groups.

How many groups

5

x

How many in each
group

1

=

5

How many groups

1

x

How many in each
group

5

=

5



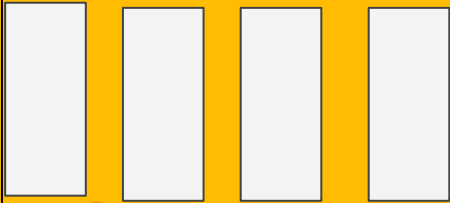


Now, your turn!

Draw a picture and write it out as repeated addition.

Example for how to set it up:

4 groups, each has 2.



$$4 \times 1 = 4$$

1 group of 4.



$$1 \times 4 = 4$$

$$1 + 1 + 1 + 1 = 4$$

A large, white, hand-drawn brushstroke in the top left corner, resembling a cloud or a burst of paint.

Your turn...

Work with a partner. Take turns creating your own number sentences and solving them.

*Remember the numbers we are using need to be the same.



Multiplication Tables

Fill in the multiplication tables of 0 and 1. Check yourself on the next page.

$1 \times 0 =$	$4 \times 0 =$	$7 \times 0 =$	$10 \times 0 =$
$2 \times 0 =$	$5 \times 0 =$	$8 \times 0 =$	$11 \times 0 =$
$3 \times 0 =$	$6 \times 0 =$	$9 \times 0 =$	$12 \times 0 =$

$1 \times 1 =$	$4 \times 1 =$	$7 \times 1 =$	$10 \times 1 =$
$2 \times 1 =$	$5 \times 1 =$	$8 \times 1 =$	$11 \times 1 =$
$3 \times 1 =$	$6 \times 1 =$	$9 \times 1 =$	$12 \times 1 =$




Multiplication Tables

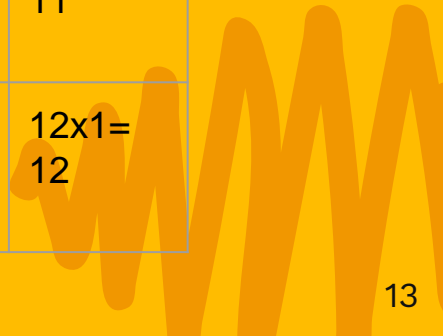
Check your answers



$1 \times 0 =$ 0	$4 \times 0 =$ 0	$7 \times 0 =$ 0	$10 \times 0 =$ 0
$2 \times 0 =$ 0	$5 \times 0 =$ 0	$8 \times 0 =$ 0	$11 \times 0 =$ 0
$3 \times 0 =$ 0	$6 \times 0 =$ 0	$9 \times 0 =$ 0	$12 \times 0 =$ 0



$1 \times 1 =$ 1	$4 \times 1 =$ 4	$7 \times 1 =$ 7	$10 \times 1 =$ 10
$2 \times 1 =$ 2	$5 \times 1 =$ 5	$8 \times 1 =$ 8	$11 \times 1 =$ 11
$3 \times 1 =$ 3	$6 \times 1 =$ 6	$9 \times 1 =$ 9	$12 \times 1 =$ 12



Today we...

Today we worked with multiplying by 0 and 1 to solve problems. Students used manipulatives, drawings, and/or verbal explanations.





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