

Multiplying by zero



Five columns, each has zero giraffes.

$0 + 0 + 0 + 0 + 0$ giraffes.

$$5 \times 0 = 0 + 0 + 0 + 0 + 0 = \underline{\quad}$$

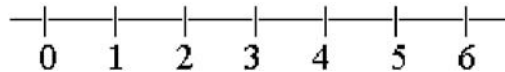
Zero rows - no rows of five giraffes.

$\underline{\quad}$ giraffes

$$0 \times 5 = 0$$

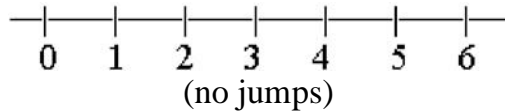
Take three jumps of zero steps.
Where do you end up?

$$3 \times 0 = 0.$$



Take ZERO or no jumps
of three steps:

$$0 \times 3 = 0.$$



Remember, multiplication by a whole number is REPEATED ADDITION.

How many
times we add

4

×

What number
we add

0

$$= 0 + 0 + 0 + 0 = 0$$

Add 0 four times.

How many
times we add

0

×

What number
we add

4

$$= \text{(nothing to add)} = 0$$

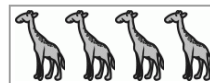
'Add' 2 zero times.

Don't forget about multiplying by one, either.



Four columns, each has one giraffe.

$$4 \times 1 = 1 + 1 + 1 + 1 = \underline{\quad}$$



One row has four giraffes.

$$1 \times 4 = \underline{\quad}$$