

Multiplying by Zero



Five groups, each has zero giraffes.

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

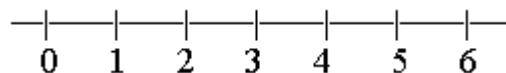
Zero groups or NO groups of five giraffes.

$$0 \times 5 = 0$$

Take three jumps of zero steps.

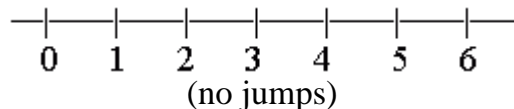
Where do you end up?

$$3 \times 0 = 0.$$



Take ZERO or no jumps
of three steps:

$$0 \times 3 = 0.$$

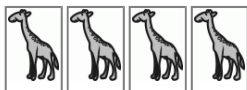


Remember, multiplication means you have so many same-size groups.

How many groups		how many in each group				
4	\times	0	$=$	$0 + 0 + 0 + 0 = 0$		
				(empty groups)		

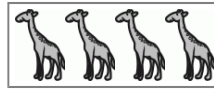
How many groups		How many in each group				
0	\times	4	$=$	0		
				(nothing)		

Don't forget about multiplying by one, either.



Four groups, each has one giraffe.

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



One group has four giraffes.

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