

Lesson: My Dog Multiplication

Lesson level: Grade 3-5

Vocab: irritation. factor

Lesson Aim: Patterns in multiplication.

In the poem, My Dog Multiplication, the number of Mr. R.'s dogs keeps increasing by a factor of 2. What would happen if a factor of 3, 4, or 5 was used? Have your students figure it out and create a chart to keep track!!

On the first day 3 x my dog multiplication:

How many dogs?	$3 \times 1 = 3$
Draw an array of the 3 dogs:	3×1 array
How many eyes or ears?	$3 \times 2 = 6$
How many legs?	$3 \times 4 = 12$
How many tails?	$3 \times 1 = 3$
How many toenails?	$3 \times 16 = 48$

On the second day of 3 x my dog multiplication:

How many dogs?	$3 \times 3 = 9$
Draw arrays of 9 dogs	9×1 or 3×3 array
How many eyes or ears?	$9 \times 2 = 18$
How many legs?	$9 \times 4 = 36$
How many tails?	$9 \times 1 = 9$
How many toenails?	$9 \times 16 = 144$

Extension: Start with one dog and one chicken, and figure how many legs /eyes/wings/etc. there would be as they are multiplied by different factors.