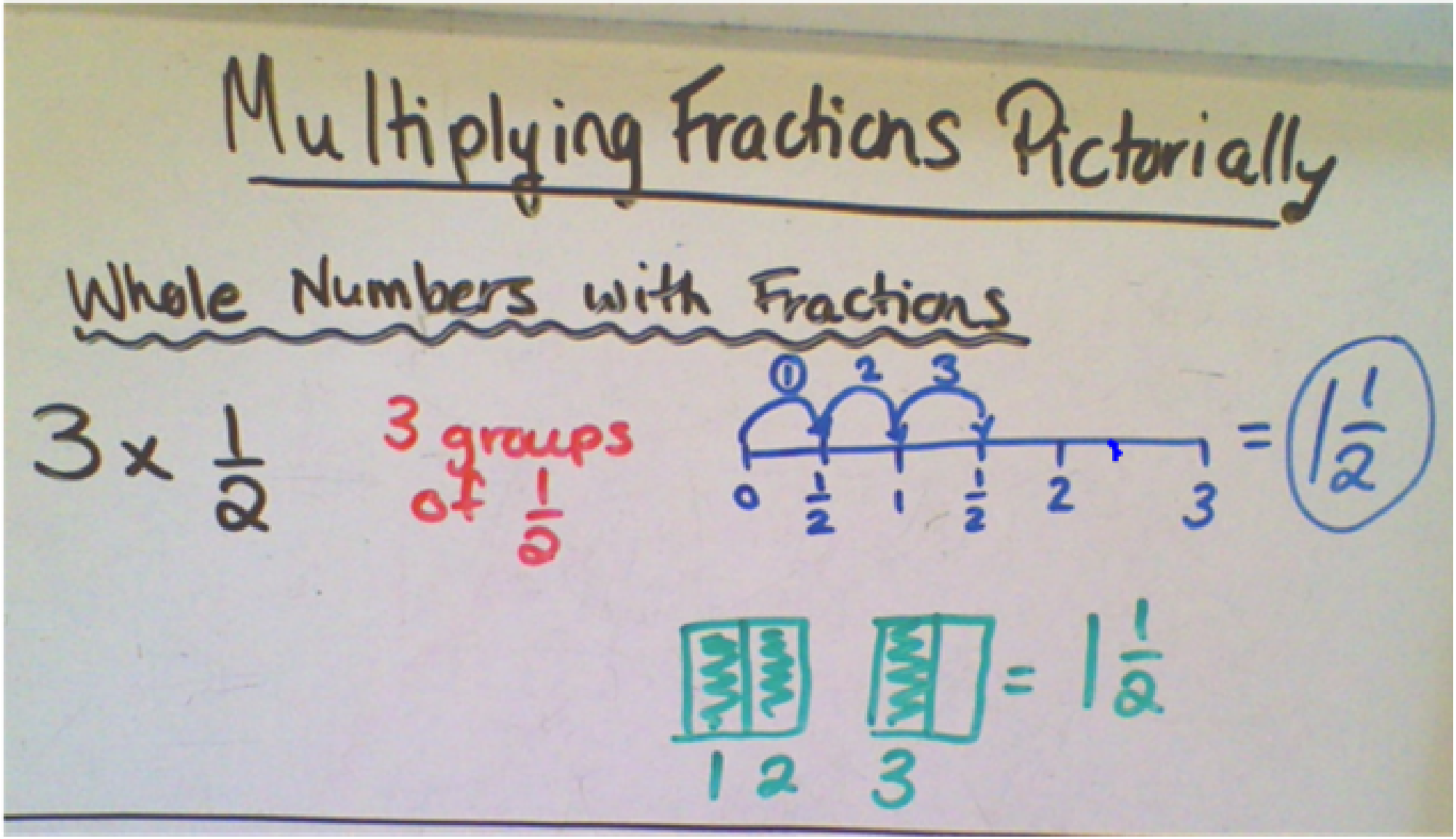
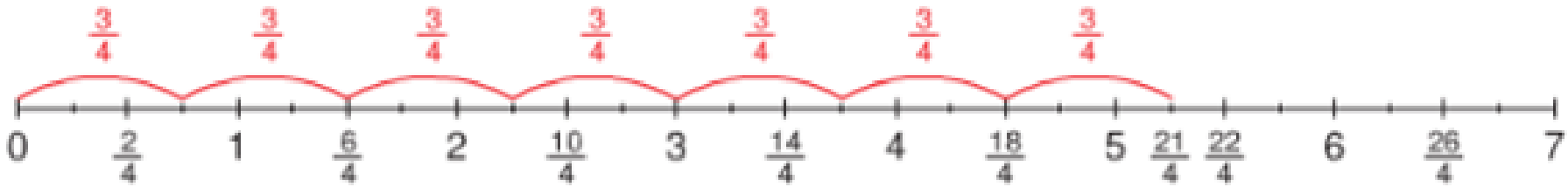
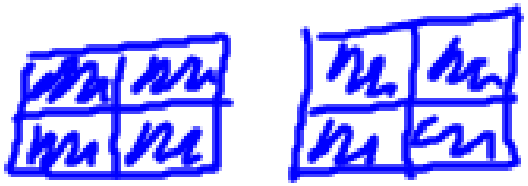
Remember multiplication is repeated addition (2+2+2+2 is the same as 2x4)



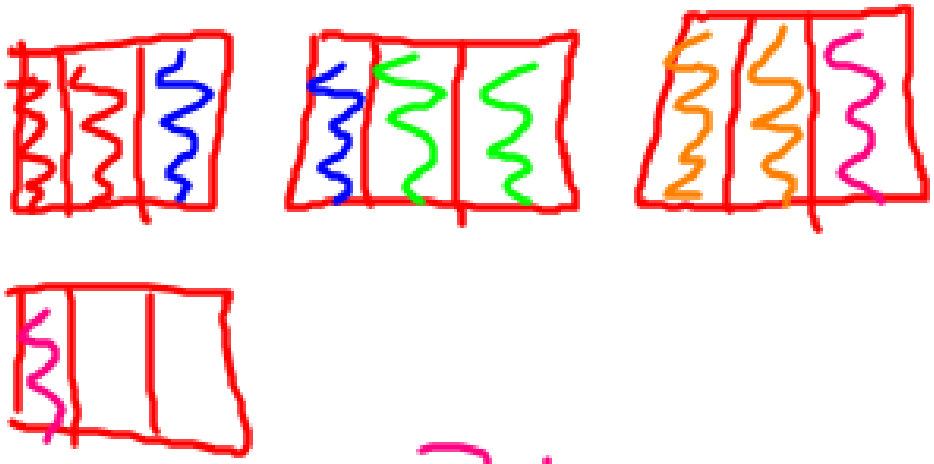
We can use a number line divided into fourths to show that $7 \times \frac{3}{4} = \frac{21}{4}$.



1/4 x 8 = 2



5 x 2/3



$3\frac{1}{3}$

3 x 2/5

$= \frac{6}{5} = 1\frac{1}{5}$

of means multiply

1/2 of 6 = $\frac{1}{2} \times 6$

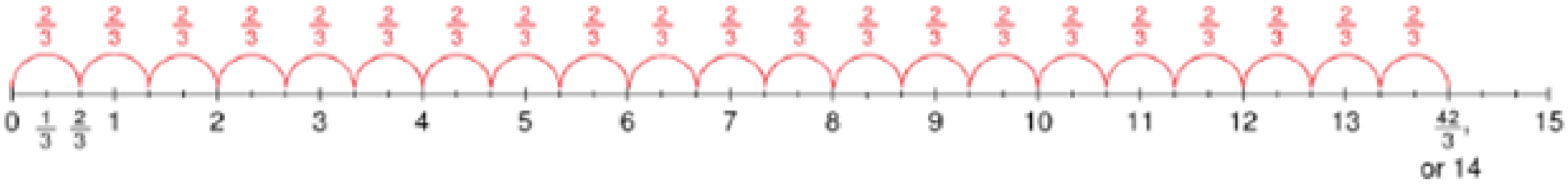
Example 1

New flooring has been installed in two-thirds of the classrooms in the school.
There are 21 classrooms in the school.
How many classrooms have new flooring?

A Solution

Multiply: $21 \times \frac{2}{3}$

Use a number line divided into thirds.



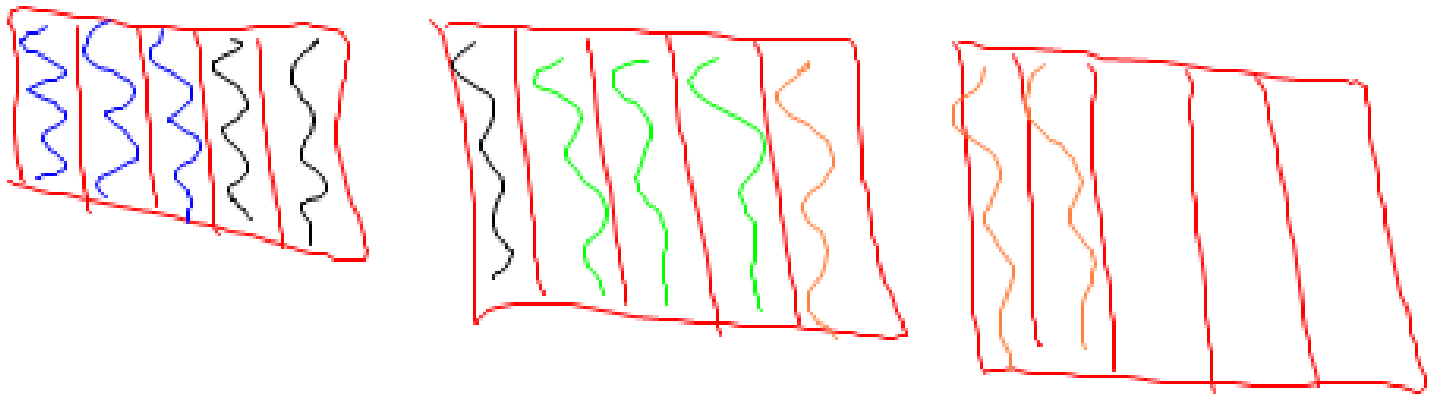
So, $21 \times \frac{2}{3} = \frac{42}{3}$, or 14

Fourteen classrooms have new flooring.

Example 2

An office building with four floors has rented out $\frac{3}{5}$ of each floor. How many floors of the building have been rented?

$4 \times \frac{3}{5}$



$= 2\frac{2}{5}$

pg 108 #5, 6, 8, 10, 11, 14, 15, 16, 17, 20 (note when it says fraction circles or counters you can use rectangles or number lines like we've been doing in class) Challenge question #22