

Name _____

Date _____

Comparing Fractions and Equivalence - Guided Lesson Explanation**Explanation to #1**

We have to observe the gap between 0 ___ 1/4.

We can see that there is a gap of one fourth. It looks like that for every gap, we have to add 1 to numerator and the keep the denominator same.

$$\frac{1}{4}, \frac{1+1}{4} = \frac{2}{4}, \frac{2+1}{4} = \frac{3}{4}, \frac{3+1}{4} = \frac{4}{4} = 1$$

So the answer is $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}, 1$

We will do the same to the second missing fractions.

We have to observe the gap between 0 ___ 4/16.

We can see that there is a gap of four in the numerator. So we have to add 4 to numerator and the keep the denominator same.

$$\frac{4}{16}, \frac{4+4}{16} = \frac{8}{16}, \frac{8+4}{16} = \frac{12}{16}, \frac{12+4}{16} = \frac{16}{16} = 1$$

So the answer is $\frac{4}{16}, \frac{8}{16}, \frac{12}{16}, 1$



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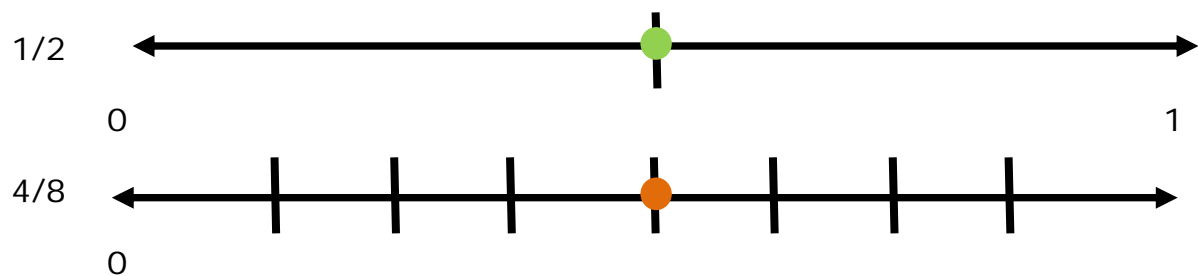
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Explanation to #2

Count the number of segments on the first number line. There are 2 segments. Count the number of segments between 0 and the dot. There is 1 segment.

The first line shows $1/2$.

Count the number of segments on the second number line. There are 8 segments. Count the number of segments between 0 and the dot. There are 4 segments.



$4/8$

$1/2$

neither; they are equal

The second number line shows $4/8$.

The dot is in the same spot on each line.

$1/2$ is equal to $4/8$. They are equivalent fractions.



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Explanation to #3

Count the number of colored parts in the first picture. There are 5 colored parts (numerator) in each picture.

Count the number of equal parts in the first picture. There are 10 equal parts (denominator).

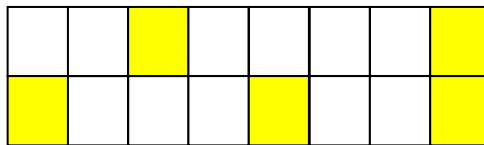
The first picture shows $5/10$.



Count the number of colored parts (numerator) in the picture. There are 5 colored parts.

Count the number of equal parts in the second picture. There are 16 equal parts (denominator).

The second picture shows $5/16$.



The second picture (16) has more equal parts than the first picture (10), so the fraction in the second picture is smaller.

$5/16$ is less than $5/10$.

