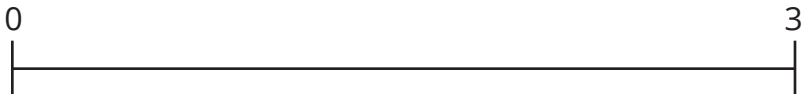
½ Whole Number as Equivalent Fractions 2

Name:_____ Date:_____

When is a whole number equivalent to a fraction?
Using a three step process with a number line, we can take a look!

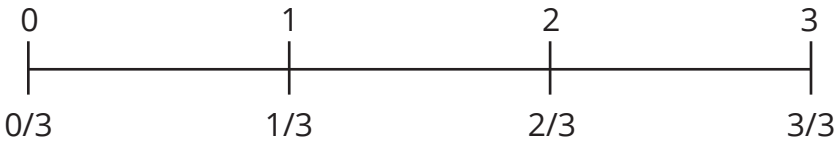
Consider the whole number, 3, using these three steps:

Step 1) Draw an open number line going from 0 to an endpoint.
In this case the endpoint would be 3. Observe:



Step 2) 3 can be expressed on the number line in three equal groups of 1, drawn like this:

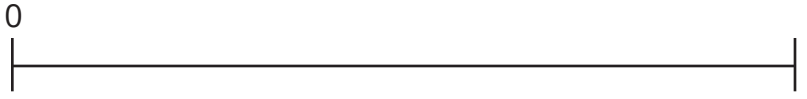
Step 3) So it's easy to see three and it's fractional parts, which we can labeled in thirds, like this: 0 = 0/3 of 3, 1 = 1/3 of 3, 2 = 2/3 of 3, 3 = 3/3 of 3.



Taking a Look: Corresponding parts, like 1 and 1/3 are called equivalent, because they occupy the same point on a number line, when looking at 3 as a whole. 1 is 1/3 of 3. 3 is 3/3 of 3. Can you name all the equivalent pairs?

Use the 3-step process described above, to complete the following exercises.

1. Illustrate the whole number 8 as an equivalent fraction.



a) What whole number is equivalent to ⅝ of 8? ____
b) List all of eight's equivalent pairs: _____

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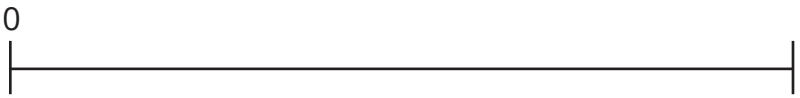
2. Illustrate the whole number 9 as an equivalent fraction.

a) What whole number is equivalent to 4/9 of 9? ____
b) List all of nine's equivalent pairs: _____

3. Illustrate the whole number 12 as an equivalent fraction.



a) What whole number is equivalent to 3/12 of 12? ____
b) List all of twelve's equivalent pairs: _____

4. Illustrate the whole number 3 as an equivalent fraction.

a) What whole number is equivalent to 1/3 of 3? ____
b) List all of three's equivalent pairs: _____