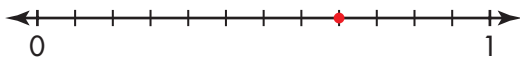


Homework & Practice 8-2

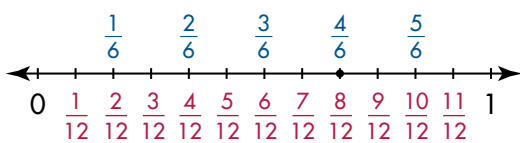
Equivalent Fractions: Number Lines

Another Look!

You can write equivalent fractions for a point shown on a number line.



Label the number line in two different ways.



The point is at $\frac{4}{6}$.

The point is at $\frac{8}{12}$.

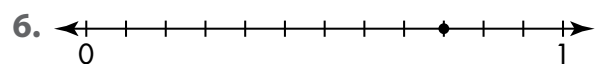
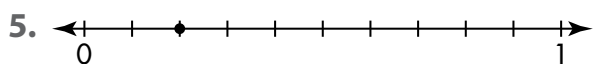
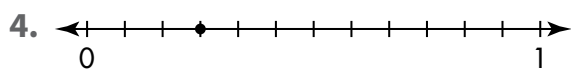
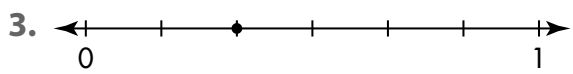
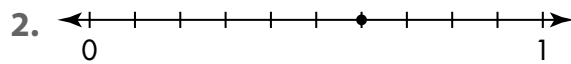
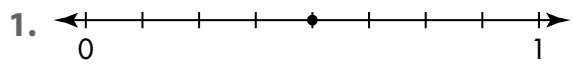
$$\frac{4}{6} = \frac{8}{12}$$

$\frac{4}{6}$ and $\frac{8}{12}$ are equivalent fractions.

Equivalent fractions represent the same fractional amount of the same whole or same-sized wholes.



For 1–6, write two fractions for the point on each number line.



7. Are $\frac{3}{8}$ and $\frac{3}{4}$ equivalent fractions? Draw a number line to decide.

8. Draw a number line to show $\frac{1}{4}$ and $\frac{2}{8}$ are equivalent.

9. **MP.3 Critique Reasoning** Mike says he can find a fraction equivalent to $\frac{1}{10}$, even though $\frac{1}{10}$ is a unit fraction. Is Mike correct? Explain.

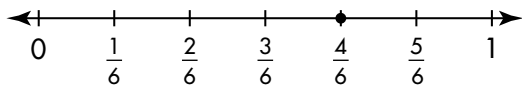
10. **Algebra** There are 267 students and 21 adults going on a school trip. An equal number of people will ride on each bus. If there are 9 buses, how many people will ride on each bus? Write and solve equations.

11. Point X is at $\frac{2}{3}$ on a number line. On the same number line, point Y is the same distance from 0 as point X , but has a numerator of 8. What is the denominator of the fraction at point Y ? Draw a number line to model the problem.

12. **Higher Order Thinking** A recipe calls for $\frac{1}{4}$ cup of flour. Carter only has a measuring cup that holds $\frac{1}{8}$ cup. How can Carter measure the flour he needs for his recipe?

Common Core Assessment

13. Monty is using a number line to find fractions equivalent to $\frac{4}{6}$. He says he can find an equivalent fraction with a denominator greater than 6 and an equivalent fraction with a denominator less than 6.



You can further divide or relabel the number line to find equivalent fractions.



Part A

Write to explain how Monty can use the number line to find an equivalent fraction with a denominator greater than 6.

Part B

Write to explain how Monty can use the number line to find an equivalent fraction with a denominator less than 6.