ALBERT

Name _____ Date _____

Equivalent Fractions on a Number Line Worksheet

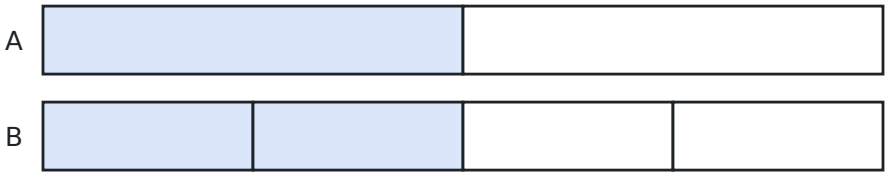
Grade 3 · Common Core 3.NF.A.3a

> Understand two fractions as equivalent (equal) if they are the same size, or the same point on a number line.

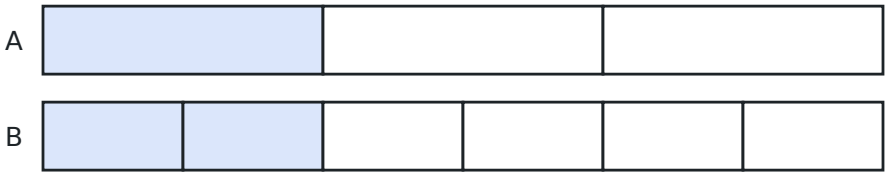
Practice

Builds the skill step by step.

1. Bars A and B are the same size. Bar A shows $\frac{1}{2}$. What fraction of bar B is shaded?



2. The bars are the same size. Are $\frac{1}{3}$ and $\frac{2}{6}$ equivalent?



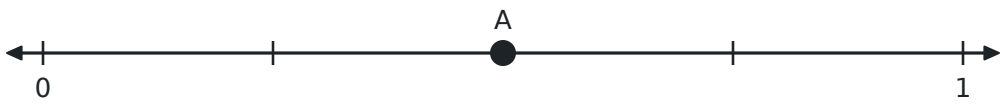
A. No, because 2 parts is more than 1 part.

B. Yes, because the shaded parts are the same size.

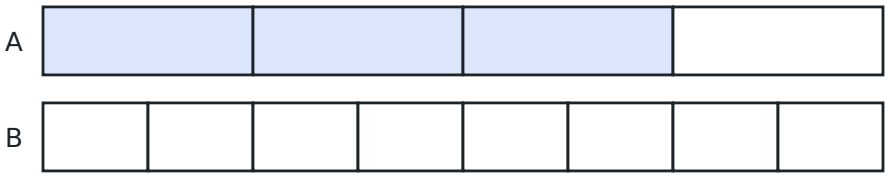
C. Yes, because both have 1 on top.

D. No, because 6 is bigger than 3.

3. Point A is at $\frac{2}{4}$. Which fraction with 2 as the bottom number is at the same point?



4. The bars are the same size. How many eighths of bar B must be shaded to show the same amount as bar A?



5. Which fraction is equal to $\frac{1}{3}$?

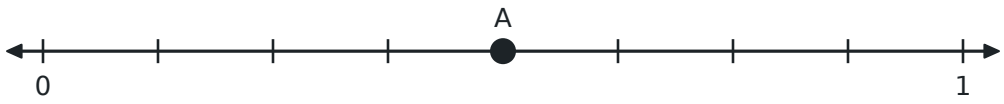
   A. $\frac{3}{1}$

   B. $\frac{1}{6}$

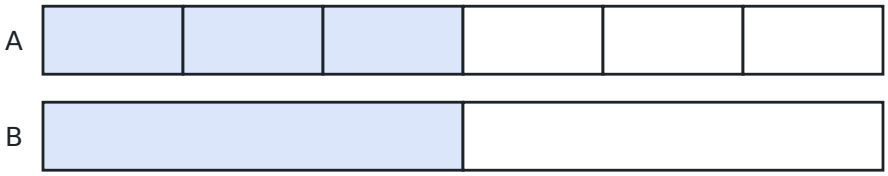
   C. $\frac{2}{3}$

   D. $\frac{2}{6}$

6. Point A is at $\frac{4}{8}$. Which fraction in fourths is at the same point?



7. The bars are the same size. Bar A shows $\frac{3}{6}$. What fraction does bar B show?



8. The bars are the same size. Do they show equivalent fractions?



A. No, because bar B has more shaded.

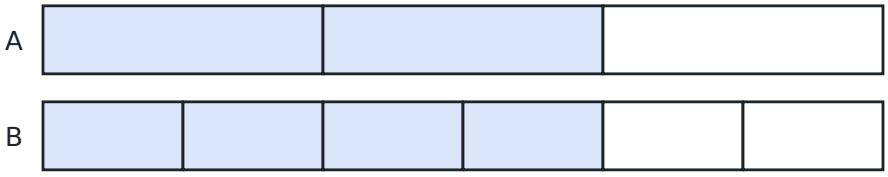
B. Yes, because both bars are the same size.

C. Yes, because both have parts shaded.

D. No, because bar A has more shaded.

9. Two fractions are at the same point on a number line. One is $\frac{4}{8}$. The other has 2 as its bottom number. What is it?

10. The bars are the same size. Bar A shows $\frac{2}{3}$. What fraction of bar B is shaded?



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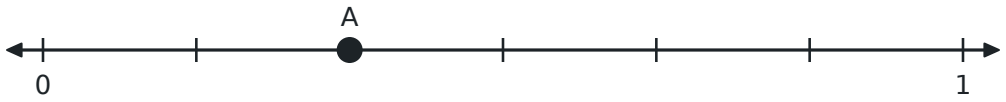
On Level

Grade-level practice.

1. Point A is at $\frac{2}{6}$. Which fraction in thirds names the same point?



2. Ben says $\frac{1}{2}$ of a small pizza is the same amount as $\frac{1}{2}$ of a large pizza. Is he right?

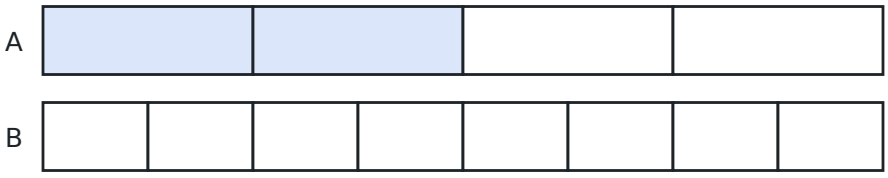
   A. No, because $\frac{1}{2}$ is never equal to $\frac{1}{2}$.

   B. Yes, because both pizzas have 2 halves.

   C. No, because the wholes are different sizes.

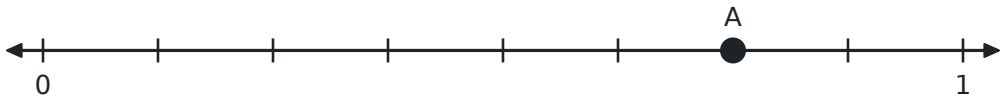
   D. Yes, because both are $\frac{1}{2}$.

3. The bars are the same size. How many eighths of bar B must be shaded to match bar A?



4. Fill in the box so the fractions are equivalent: $\frac{3}{6} = \frac{\square}{2}$

5. Which two fractions name point A?



A. $\frac{6}{8}$ and $\frac{3}{4}$

B. $\frac{6}{8}$ and $\frac{2}{3}$

C. $\frac{6}{8}$ and $\frac{6}{4}$

D. $\frac{3}{8}$ and $\frac{3}{4}$

6. Fill in the box so the fractions are equivalent: $\frac{2}{3} = \frac{\square}{6}$

7. Is $\frac{2}{4}$ equal to $\frac{2}{8}$?

A. Yes, because both have 2 on top.

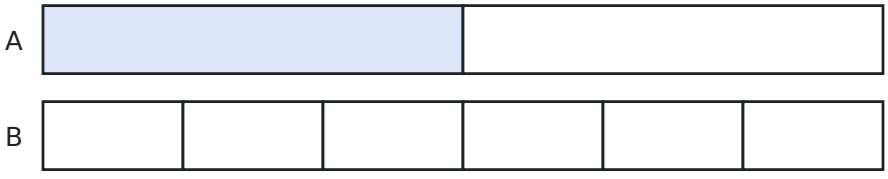
B. Yes, because 4 + 4 = 8.

C. No, because $\frac{2}{8}$ is bigger.

D. No, because eighths are smaller than fourths.

8. Fill in the box so the fractions are equivalent: $\frac{4}{4} = \frac{\square}{8}$

9. The bars are the same size. How many sixths of bar B must be shaded to match bar A?



10. Which pair of fractions is NOT equivalent?

A. $\frac{1}{3}$ and $\frac{2}{6}$

B. $\frac{2}{4}$ and $\frac{4}{8}$

C. $\frac{1}{4}$ and $\frac{2}{6}$

D. $\frac{1}{2}$ and $\frac{3}{6}$

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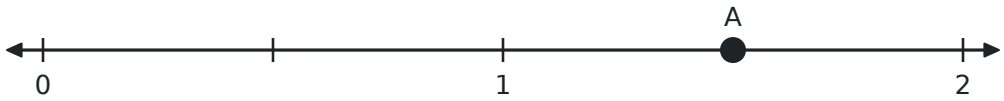
Challenge

Multi-step and word problems that stretch it.

1. Write a fraction in eighths that is equivalent to $\frac{1}{2}$.

2. Point A is at $\frac{3}{2}$. Which fraction in fourths is at the same point?



3. Rob says $\frac{3}{4} = \frac{3}{8}$ because both have 3 parts. What is wrong with his thinking?

   A. Nothing; he is right.

   B. Eighths are smaller than fourths, so 3 eighths is less than 3 fourths.

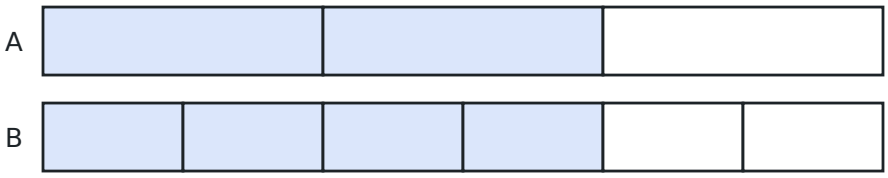
   C. $\frac{3}{8}$ is more because 8 is more than 4.

   D. He should compare the bottom numbers only, and 8 is bigger.

4. Fill in both boxes: $\frac{\square}{6} = \frac{1}{2} = \frac{\square}{8}$. Give the first box, then the second.

5. Which fraction in sixths is at the same point on a number line as $\frac{2}{3}$?

6. Why are $\frac{2}{3}$ and $\frac{4}{6}$ equivalent?



   A. Because both fractions have even numbers.

   B. Because 2 + 2 = 4 and 3 + 3 = 6.

   C. Because 4 is bigger than 2.

   D. If you cut each third into 2 equal pieces, 2 thirds become 4 sixths.

7. Ava used $\frac{2}{4}$ of a ribbon. Ben used $\frac{4}{8}$ of a ribbon that is the same size. Who used more?

   A. They used the same amount.

   B. Ava

   C. Ben

   D. You can't tell.

8. Fill in the box so the fractions are equivalent: $\frac{6}{8} = \frac{\square}{4}$

9. Point A is exactly halfway between 0 and 1. Name it as a fraction in eighths.

10. Fill in the box so the fractions are equivalent: $\frac{2}{6} = \frac{1}{\square}$