ALBERT

Name _____ Date _____

Equivalent Fractions Worksheet

Grade 3 · Common Core 3.NF.A.3b

> Recognize and generate simple equivalent fractions, e.g., 1/2 = 2/4, 4/6 = 2/3. Explain why the fractions are equivalent, e.g., by using a visual fraction model.

Practice

Builds the skill step by step.

1. Fill in the box: $\frac{1}{2} = \frac{\square}{4}$

2. Fill in the box: $\frac{1}{3} = \frac{\square}{6}$

3. Fill in the box: $\frac{1}{4} = \frac{\square}{8}$

4. Which fraction is equal to $\frac{2}{4}$?

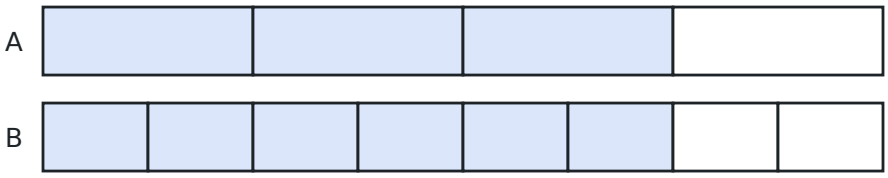
   A. $\frac{2}{8}$

   B. $\frac{1}{2}$

   C. $\frac{4}{2}$

   D. $\frac{1}{4}$

5. The bars are the same size. Bar A shows $\frac{3}{4}$. What fraction of bar B is shaded?



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

7. Fill in the box: $\frac{4}{6} = \frac{2}{\square}$

8. Which fraction is NOT equal to $\frac{1}{2}$?

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

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

   C. $\frac{3}{6}$

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

9. Fill in the box: $\frac{2}{8} = \frac{1}{\square}$

10. Fill in the box: $\frac{3}{6} = \frac{\square}{2}$

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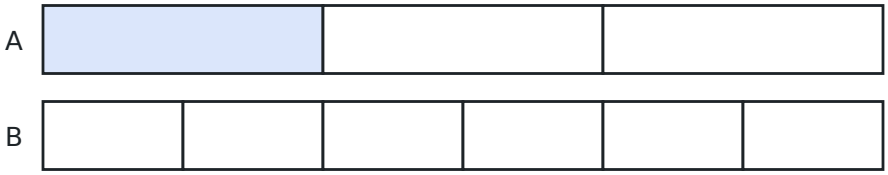
On Level

Grade-level practice.

1. Write a fraction in eighths that is equal to $\frac{3}{4}$.

2. Fill in the box: $\frac{4}{8} = \frac{\square}{2}$

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



4. Kim ate $\frac{2}{8}$ of a pizza. Lee ate $\frac{1}{4}$ of a pizza the same size. Which is true?

   A. Kim ate more.

   B. Lee ate more.

   C. They ate the same amount.

   D. You can't tell.

5. Fill in the box: $\frac{6}{8} = \frac{\square}{4}$

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

7. Which pair of fractions is equivalent?

   A. $\frac{1}{4}$ and $\frac{1}{8}$

   B. $\frac{2}{3}$ and $\frac{3}{4}$

   C. $\frac{2}{3}$ and $\frac{4}{6}$

   D. $\frac{3}{6}$ and $\frac{3}{8}$

8. Write $\frac{1}{2}$ as a fraction in sixths.

9. Fill in the box: $\frac{\square}{4} = \frac{4}{8}$

10. Write two fractions equal to $\frac{1}{2}$: one in fourths, then one in eighths.

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Challenge

Multi-step and word problems that stretch it.

1. Fill in the boxes: $\frac{1}{2} = \frac{\square}{4} = \frac{\square}{6} = \frac{\square}{8}$. Write the three numbers in order.

2. Why is $\frac{2}{3}$ equal to $\frac{4}{6}$?

   A. Because 4 and 6 are bigger numbers.

   B. Because both fractions are less than 1.

   C. Because you add 2 to the top and 3 to the bottom.

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

3. A pan of brownies is cut into 8 equal pieces. Jo eats $\frac{1}{4}$ of the pan. How many pieces does she eat?

4. Mia says $\frac{3}{4} = \frac{6}{8}$. Tom says $\frac{3}{4} = \frac{3}{8}$. Who is right?

   A. Tom

   B. Mia

   C. Both

   D. Neither

5. Fill in the box: $\frac{\square}{8} = \frac{3}{4}$

6. $\frac{4}{6}$ of the windows in a classroom are open. Write the same amount as a fraction in thirds.

7. A ribbon is $\frac{6}{8}$ of a yard long. Write its length as a fraction in fourths.

8. Three of these fractions are equal. Which one is different?

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

   B. $\frac{1}{2}$

   C. $\frac{2}{4}$

   D. $\frac{3}{6}$

9. Eli shaded $\frac{2}{4}$ of a bar. How many eighths would he shade on a bar the same size to show the same amount?

10. Fill in the box: $\frac{4}{\square} = \frac{2}{3}$