Name _____

# Common Denominators

**COMMON CORE STANDARD CC.4.NF.1**

Extend understanding of fraction equivalence and ordering.

**Write the pair of fractions as a pair of fractions with a common denominator.**

**1.** $\frac{2}{3}$ and $\frac{3}{4}$

Think: Find a common multiple.
3: 3, 6, 9, (12), 15
4: 4, 8, (12), 16, 20

$\frac{8}{12}, \frac{9}{12}$

**2.** $\frac{1}{4}$ and $\frac{2}{3}$ _____

**3.** $\frac{3}{10}$ and $\frac{1}{2}$ _____

**4.** $\frac{3}{5}$ and $\frac{3}{4}$ _____

**5.** $\frac{2}{4}$ and $\frac{7}{8}$ _____

**6.** $\frac{2}{3}$ and $\frac{5}{12}$ _____

**7.** $\frac{1}{4}$ and $\frac{1}{6}$ _____

**Tell whether the fractions are equivalent. Write = or ≠.**

**8.** $\frac{1}{2} \bigcirc \frac{2}{5}$

**9.** $\frac{1}{2} \bigcirc \frac{3}{6}$

**10.** $\frac{3}{4} \bigcirc \frac{5}{6}$

**11.** $\frac{6}{10} \bigcirc \frac{3}{5}$

**12.** $\frac{6}{8} \bigcirc \frac{3}{4}$

**13.** $\frac{3}{4} \bigcirc \frac{2}{3}$

**14.** $\frac{2}{10} \bigcirc \frac{4}{5}$

**15.** $\frac{1}{4} \bigcirc \frac{3}{12}$

## Problem Solving REAL WORLD

**16.** Adam drew two same size rectangles and divided them into the same number of equal parts. He shaded $\frac{1}{3}$ of one rectangle and $\frac{1}{4}$ of other rectangle. What is the least number of parts into which both rectangles could be divided?

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**17.** Mera painted equal sections of her bedroom wall to make a pattern. She painted $\frac{2}{5}$ of the wall white and $\frac{1}{2}$ of the wall lavender. Write an equivalent fraction for each using a common denominator.

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TEST PREP

## Lesson Check (CC.4.NF.1)

1. Which of the following is a common denominator of $\frac{1}{4}$ and $\frac{5}{6}$?

   Ⓐ 8

   Ⓑ 9

   Ⓒ 12

   Ⓓ 15

2. Two fractions have a common denominator of 8. Which of the following could be the two fractions?

   Ⓐ $\frac{1}{2}$ and $\frac{2}{3}$

   Ⓑ $\frac{1}{4}$ and $\frac{1}{2}$

   Ⓒ $\frac{3}{4}$ and $\frac{1}{6}$

   Ⓓ $\frac{1}{2}$ and $\frac{4}{5}$

## Spiral Review (CC.4.NBT.2, CC.4.NBT.5, CC.4.NBT.6, CC.4.NF.1)

3. Which number is 100,000 more than seven hundred two thousand, eighty-three? (Lesson 1.2)

   Ⓐ 703,083

   Ⓑ 712,083

   Ⓒ 730,083

   Ⓓ 802,083

4. Aiden baked 8 dozen muffins. How many total muffins did he bake? (Lesson 2.10)

   Ⓐ 64

   Ⓑ 80

   Ⓒ 96

   Ⓓ 104

5. On a bulletin board, the principal, Ms. Gomez, put 115 photos of the fourth-grade students in her school. She put the photos in 5 equal rows. How many photos did she put in each row? (Lesson 4.11)

   Ⓐ 21

   Ⓑ 23

   Ⓒ 25

   Ⓓ 32

6. Judy uses 12 tiles to make a mosaic. Eight of the tiles are blue. What fraction, in simplest form, represents the tiles that are blue? (Lesson 6.3)

   Ⓐ $\frac{2}{3}$

   Ⓑ $\frac{2}{5}$

   Ⓒ $\frac{3}{4}$

   Ⓓ $\frac{12}{18}$