

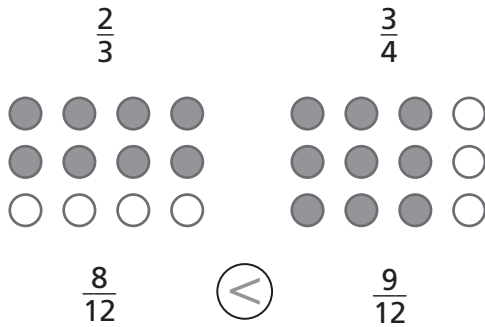
# Comparing Fractions Using Common Denominators

NCTM Standards 1, 2, 6, 7, 8, 9, 10

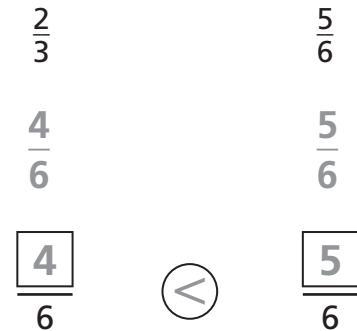
For each pair of fractions:

- Write an equivalent pair of fractions, but with a common denominator.
- Use dot sketches to make equivalent fractions, if you wish.
- Write  $<$ ,  $>$ , or  $=$  between the fractions.

Example 1



Example 2



1

$$\frac{2}{5}$$

$$\frac{1}{4}$$

$$\frac{\square}{20}$$



$$\frac{\square}{20}$$

2

$$\frac{2}{4}$$

$$\frac{3}{5}$$

$$\frac{\square}{20}$$



$$\frac{\square}{20}$$

3

$$\frac{4}{6}$$

$$\frac{3}{4}$$

$$\frac{\square}{\square}$$



$$\frac{\square}{\square}$$

4

$$\frac{1}{4}$$

$$\frac{2}{6}$$

$$\frac{\square}{\square}$$



$$\frac{\square}{\square}$$

**Write the fractions with a common denominator in order to solve the problems.**

**5** Scott ate  $\frac{4}{5}$  of a pizza and Todd ate  $\frac{3}{4}$  of a pizza.

Who ate more pizza? \_\_\_\_\_

**6** In Sam's class,  $\frac{1}{8}$  of the students chose strawberry,  $\frac{1}{2}$  chose chocolate, and  $\frac{3}{8}$  chose vanilla as their favorite ice cream flavor.

Which flavor was most popular?

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**7** Twin sisters Bethany and Britney receive the same allowance. Bethany saves  $\frac{2}{3}$  of hers each week, and Britney saves  $\frac{1}{2}$  of hers.

Who saves less each week?

\_\_\_\_\_

**8** Aki ran  $\frac{5}{6}$  of the route to school. His brother, Yoshi, ran  $\frac{6}{8}$  of the same route.

Who was closer to school when he stopped running?

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**9 Challenge** Drew spent  $\frac{3}{4}$  of his lunch hour eating and he spent the rest of the time talking. Meg spent  $\frac{1}{6}$  of her lunch hour talking and the rest of the time eating.

If they have the same amount of time for lunch, who spends more time talking?

\_\_\_\_\_

How do you know?