

Name: _____ Date: _____

It's a Match!

Simplifying Fractions

Simplify each fraction. Then match each fraction on the left with the equivalent fraction on the right.

$$\frac{18}{60}$$

$$\frac{12}{72}$$

$$\frac{10}{25}$$

$$\frac{20}{45}$$

$$\frac{40}{32}$$

$$\frac{15}{25}$$

$$\frac{21}{35}$$

$$\frac{21}{48}$$

$$\frac{4}{24}$$

$$\frac{33}{45}$$

$$\frac{4}{9}$$

$$\frac{30}{24}$$

$$\frac{14}{32}$$

$$\frac{18}{24}$$

$$\frac{36}{48}$$

$$\frac{12}{30}$$

$$\frac{11}{15}$$

$$\frac{15}{50}$$

Were any of the fractions in simplest form to begin with? How did you know?

Thinking Cap



Create your own *It's a Match!* puzzle. Describe how you created your puzzle. Then exchange puzzles with a classmate, and solve each other's puzzle.

It's a Match

Simplifying Fractions

Topic: Simplifying Fractions

Objective: To use the calculator to simplify fractions.

NCTM Standards: Communication, Reasoning, Number and Number Relationships

Using the Activity

Students use the calculator in this activity to simplify fractions. Students then match equivalent fractions.

- The **b/c** key can be used to enter the fraction into the calculator.
- The **=** key can be used to simplify the fraction.

Example To simplify the fraction $\frac{18}{60}$, enter 18 **b/c** 60. Then press the **=** key twice to simplify the fraction. The display shows $\frac{3}{10}$.

Assessment One way students can check their answers is to divide the original numerator of each fraction by its original denominator to find the decimal equivalent. They can then change the decimal to a fraction by pressing the **F-D** key. Encourage students to do this for the equivalent fractions they have matched.

Answers

$$\frac{18}{60} = \frac{3}{10} \text{ is equivalent to } \frac{15}{50} = \frac{3}{10}.$$

$$\frac{10}{25} = \frac{2}{5} \text{ is equivalent to } \frac{12}{30} = \frac{2}{5}.$$

$$\frac{40}{32} = \frac{5}{4} \text{ is equivalent to } \frac{30}{24} = \frac{5}{4}.$$

$$\frac{21}{35} = \frac{3}{5} \text{ is equivalent to } \frac{15}{25} = \frac{3}{5}.$$

$$\frac{4}{24} = \frac{1}{6} \text{ is equivalent to } \frac{12}{72} = \frac{1}{6}.$$

$$\frac{4}{9} \text{ is equivalent to } \frac{20}{45} = \frac{4}{9}.$$

$$\frac{14}{32} = \frac{7}{16} \text{ is equivalent to } \frac{21}{48} = \frac{7}{16}.$$

$$\frac{36}{48} = \frac{3}{4} \text{ is equivalent to } \frac{18}{24} = \frac{3}{4}.$$

$$\frac{11}{15} \text{ is equivalent to } \frac{33}{45} = \frac{11}{15}.$$

Yes, when you pressed **=** twice nothing happened.

Thinking Cap

Answer

Puzzles will vary. See students' work.