

Challenge

Which Fraction Am I?

Name the fraction described in each clue.

1. My denominator is an odd number greater than 5 but less than 9. My numerator is 5 less than my denominator.

2. I am greater than $\frac{1}{2}$ but less than 1. My numerator and denominator have a difference of 3 and a product of 40.

3. When you count by 3, you say my numerator. When you count by 4, you say my denominator. My numerator is less than my denominator. The product of my numerator and denominator is 72.

4. My numerator is an odd number. My denominator is an even number that is 7 greater than my numerator. The sum of my numerator and denominator is 13.

5. I am greater than $\frac{1}{2}$ but less than $\frac{9}{10}$. If you double my denominator and then subtract 6, the difference is my numerator.

6. I am greater than $\frac{2}{8}$ but less than $\frac{1}{2}$. The product of my numerator and denominator is 24. I am not a unit fraction.

7. My numerator is an odd number between 5 and 10. My denominator has two digits. The sum of my numerator and denominator is 17.

8. The product of my numerator and denominator is 36. My numerator is less than my denominator. You cannot evenly divide my denominator by my numerator.

9. **Think About It** Which strategy was most helpful in finding the fractions in problems 1-8?

Challenge

Which Fraction Am I?

Name the fraction described in each clue.

1. My denominator is an odd number greater than 5 but less than 9. My numerator is 5 less than my denominator.

$$\frac{2}{7}$$

2. I am greater than $\frac{1}{2}$ but less than 1. My numerator and denominator have a difference of 3 and a product of 40.

$$\frac{5}{8}$$

3. When you count by 3, you say my numerator. When you count by 4, you say my denominator. My numerator is less than my denominator. The product of my numerator and denominator is 72.

$$\frac{6}{12}$$

4. My numerator is an odd number. My denominator is an even number that is 7 greater than my numerator. The sum of my numerator and denominator is 13.

$$\frac{3}{10}$$

5. I am greater than $\frac{1}{2}$ but less than $\frac{9}{10}$. If you double my denominator and then subtract 6, the difference is my numerator.

$$\frac{4}{5}$$

6. I am greater than $\frac{2}{8}$ but less than $\frac{1}{2}$. The product of my numerator and denominator is 24. I am not a unit fraction.

$$\frac{3}{8}$$

7. My numerator is an odd number between 5 and 10. My denominator has two digits. The sum of my numerator and denominator is 17.

$$\frac{7}{10}$$

8. The product of my numerator and denominator is 36. My numerator is less than my denominator. You cannot evenly divide my denominator by my numerator.

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

9. **Think About It** Which strategy was most helpful in finding the fractions in problems 1-8?

Answers will vary. Sample answer: Guess and Check
