

Fractions in Simplest Form

R 7-10

There are two different ways to write a fraction in simplest form.

Write $\frac{20}{24}$ in simplest form.

Divide by Common Factors

- Divide by common factors until the only common factor is 1.
- You can start by dividing by 2, since both numbers are even.

$$\frac{20 \div 2}{24 \div 2} = \frac{10}{12}$$

But both 10 and 12 can be divided by 2.

$$\frac{10 \div 2}{12 \div 2} = \frac{5}{6}$$

Divide by the GCF

- First find the GCF of 20 and 24.

20: 1, 2, 4, 5, 10, 20

24: 1, 2, 3, 4, 6, 8, 12, 24

The GCF of 20 and 24 is 4.

- Divide both numerator and denominator by 4.

$$\frac{20 \div 4}{24 \div 4} = \frac{5}{6}$$

Write each fraction in simplest form.

1. $\frac{16}{20}$ _____

2. $\frac{8}{16}$ _____

3. $\frac{5}{10}$ _____

4. $\frac{8}{32}$ _____

5. $\frac{18}{42}$ _____

6. $\frac{15}{100}$ _____

7. $\frac{18}{21}$ _____

8. $\frac{24}{40}$ _____

9. $\frac{55}{75}$ _____

10. **Number Sense** Explain how you can tell that $\frac{31}{33}$ is in simplest form.
