

Equivalent Fractions and Simplest Form

You can multiply or divide numerators and denominators of a fraction by the same counting number. When you do this, you don't change the value of the fraction. You are finding equivalent fractions.

Find equivalent fractions.

<p>Way 1: Multiply.</p> <div style="text-align: center;"> </div>	<p>Way 2: Divide.</p> <div style="text-align: center;"> </div>
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Find the simplest form of the equivalent fraction.

<p>Way 1: Divide by the GCF of the numbers.</p> <p>$10 = 2 \times 5$</p> <p>$20 = 2 \times 5 \times 2$</p> <p>The GCF of 10 and 20 is 2×5, or 10.</p> <div style="text-align: center;"> </div>	<p>Way 2: Cancel common prime factors.</p> $\frac{10}{20} = \frac{\overset{1}{2} \times \overset{1}{5}}{\underset{1}{2} \times \underset{1}{5} \times 2} = \frac{1}{2}$
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Complete.

1. _____

2. _____

3. _____

4. $\frac{4}{9} = \frac{\square}{27}$ _____

5. $\frac{24}{28} = \frac{\square}{7}$ _____

6. $\frac{48}{60} = \frac{8}{\square}$ _____

7. $\frac{1}{2} = \frac{\square}{22}$ _____

8. $\frac{54}{81} = \frac{6}{\square}$ _____

9. $\frac{9}{12} = \frac{\square}{4}$ _____

10. $\frac{49}{14} = \frac{\square}{2}$ _____

11. $\frac{4}{7} = \frac{24}{\square}$ _____

12. $\frac{2}{9} = \frac{\square}{90}$ _____