

MathFLIX CHALLENGE

Simplifying Algebraic Fractions

Draw a line matching the fraction, the prime factored fraction and the simplified fraction.

FRACTION

PRIME FACTORED FRACTION

SIMPLIFIED FRACTION

$$\frac{30}{45} \quad \frac{2 \cdot 2}{2 \cdot 2 \cdot 2} \quad \frac{1}{3}$$

$$\frac{4}{8} \quad \frac{2 \cdot 3 \cdot 5}{3 \cdot 5 \cdot 3} \quad \frac{3}{5}$$

$$\frac{6}{10} \quad \frac{2 \cdot 5}{2 \cdot 5 \cdot 3} \quad \frac{1}{2}$$

$$\frac{10}{30} \quad \frac{2 \cdot 3}{2 \cdot 5} \quad \frac{2}{3}$$

$$\frac{x^3y^2}{x^2y^3} \quad \frac{2 \cdot 5 \cdot \cancel{xxx}yy}{3 \cdot 2 \cdot 5 \cdot \cancel{xx}yy} \quad \frac{x}{3y}$$

$$\frac{x^5y^3}{xy^5} \quad \frac{\cancel{xxx}yy}{\cancel{xx}yy} \quad \frac{x^4}{2y^2}$$

$$\frac{4x^5y^3}{8xy^5} \quad \frac{\cancel{xxxx}yy}{\cancel{xy}yy} \quad \frac{x^4}{y^2}$$

$$\frac{10x^3y^2}{30x^2y^3} \quad \frac{2 \cdot 2 \cdot \cancel{xxxxx}yy}{2 \cdot 2 \cdot 2 \cdot \cancel{xy}yy} \quad \frac{x}{y}$$

$$\frac{4a^3b^2}{8a^4b^2} \quad \frac{2 \cdot 2 \cdot aabb}{2 \cdot 2 \cdot 2 \cdot aaabbbbb} \quad \frac{2a^2b}{1}$$

$$\frac{4a^2b^5}{8a^3b^7} \quad \frac{2 \cdot 2 \cdot aaabb}{2 \cdot 2 \cdot 2 \cdot aaaabb} \quad \frac{1}{2ab^2}$$

$$\frac{8a^3b^7}{4ab^6} \quad \frac{2 \cdot 2 \cdot 2 \cdot aaabbbbb}{2 \cdot 2 \cdot abbbbb} \quad \frac{1}{2a}$$