

## Multiply Rational Expressions

Multiply the rational expressions.

$$\frac{9}{d-12} \cdot \frac{2d-16}{d-8}$$

$$\frac{3h+33}{h+4} \cdot \frac{8}{h+11}$$

$$\frac{3n(n-5)}{(n-5)(n-9)} \cdot \frac{n-9}{(n+8)(n+7)}$$

$$\frac{7k(k-10)}{(k-8)(k-2)} \cdot \frac{k+4}{(k-10)(k+4)}$$

$$\frac{11q(q-10)}{(q-10)(q-2)} \cdot \frac{q-2}{(q+4)(q-7)}$$

$$\frac{(x-8)(x-7)}{x-8} \cdot \frac{2}{(x+9)(x-8)}$$

## Multiply Rational Expressions

Multiply the rational expressions.

$$\frac{9}{d-12} \cdot \frac{2d-16}{d-8}$$
$$= \frac{18}{d-12}$$

$$\frac{3n(n-5)}{(n-5)(n-9)} \cdot \frac{n-9}{(n+8)(n+7)}$$
$$= \frac{3n}{(n+8)(n+7)}$$

$$\frac{11q(q-10)}{(q-10)(q-2)} \cdot \frac{q-2}{(q+4)(q-7)}$$
$$= \frac{11q}{(q+4)(q-7)}$$

$$\frac{3h+33}{h+4} \cdot \frac{8}{h+11}$$
$$= \frac{24}{h+4}$$

$$\frac{7k(k-10)}{(k-8)(k-2)} \cdot \frac{k+4}{(k-10)(k+4)}$$
$$= \frac{7k}{(k-8)(k-2)}$$

$$\frac{(x-8)(x-7)}{x-8} \cdot \frac{2}{(x+9)(x-8)}$$
$$= \frac{2(x-7)}{(x+9)(x-8)}$$