

Name : _____

Simplifying Expressions

ES3

Simplify each expression.

1) $\frac{2p}{q} \times \frac{q^2}{4p}$

2) $\frac{7t^2 - 14t}{t} \div \frac{7}{t}$

3) $\frac{9x}{8y} \times \frac{8y}{x^2}$

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$\times \frac{1}{s(s-5)}$

5) $\frac{18m + 24}{12m} \div$

7) $\frac{10z^4}{x^3y^2} \div \frac{30z^5}{x^4y^2}$

8) $\frac{r-2}{8r+16} \times \frac{r+2}{r^2-2r}$

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Answer key

ES3

Simplifying Expressions

Simplify each expression.

1) $\frac{2p}{q} \times \frac{q^2}{4p}$

$\frac{q}{2}$

2) $\frac{7t^2 - 14t}{t} \div \frac{7}{t}$

$t(t - 2)$

3) $\frac{9x}{8y} \times \frac{8y}{x^2}$

$\frac{9}{x}$

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$\times \frac{1}{s(s - 5)}$

5) $\frac{18m + 24}{12m} \div$

$5m$

7) $\frac{10z^4}{x^3y^2} \div \frac{30z^5}{x^4y^2}$

$\frac{x}{3z}$

8) $\frac{r - 2}{8r + 16} \times \frac{r + 2}{r^2 - 2r}$

$\frac{1}{8r}$