

Name : _____

Score : _____ Date : _____

Activity on Simplifying Expressions

Simplify each expression.

(1) $\frac{1}{x-1} \times \frac{8x-8}{8}$

(2) $\frac{2y-5}{(y+2)(y-3)} \times \frac{y-3}{4y-10}$

(3) $\frac{3x-9y}{x^2-xy} \div \frac{x^2-9y^2}{x^2-y^2}$

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

(5) $\frac{1}{p-4} \div \frac{3p}{4p-16}$

(6) $\frac{x^3+2x^2}{y^3-y} \times \frac{y^2-1}{x^2-4}$

(7) $\frac{5b^2c^2}{10bc} \div \frac{6b^2c}{2c^2}$

(8) $\frac{2p}{q} \div \frac{4p}{q^2}$

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Answers

$$(1) \frac{1}{x-1} \times \frac{8x-8}{8}$$

$$\frac{1}{\text{-----}}$$

$$(2) \frac{2y-5}{(y+2)(y-3)} \times \frac{y-3}{4y-10}$$

$$\frac{1}{2(y+2)} \text{-----}$$

$$(3) \frac{3x-9y}{x^2-xy} \div \frac{x^2-9y^2}{x^2-y^2}$$

$$\frac{3(x+y)}{x(x+3y)} \text{-----}$$

$$(4) \frac{r-2}{8r+16} \times \frac{r+2}{r^2-2r}$$

$$\frac{1}{8r} \text{-----}$$

$$(5) \frac{1}{p-4} \div \frac{3p}{4p-16}$$

$$\frac{4}{3p} \text{-----}$$

$$(6) \frac{x^3+2x^2}{y^3-y} \times \frac{y^2-1}{x^2-4}$$

$$\frac{x^2}{y(x-2)} \text{-----}$$

$$(7) \frac{5b^2c^2}{10bc} \div \frac{6b^2c}{2c^2}$$

$$\frac{c^2}{6b} \text{-----}$$

$$(8) \frac{2p}{q} \div \frac{4p}{q^2}$$

$$\frac{q}{2} \text{-----}$$