

Name : _____

Simplifying Expressions

ES4

Simplify each expression.

1) $\frac{4a}{c^2} \div \frac{2a}{c}$

2) $\frac{5q - 20}{5q^2} \times \frac{q^2}{q - 4}$

3) $\frac{n^4}{4m + 5} \times \frac{8m}{n^2}$

5) $\frac{9v^3 - 3v}{v} \div \frac{3}{v}$

7) $\frac{3p^2q^2}{9pq} \times \frac{4q^2}{12p^2q}$

8) $\frac{2z - 4}{4z^2 - 8z} \div \frac{2z}{8z^2}$

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Simplifying Expressions

Simplify each expression.

1) $\frac{4a}{c^2} \div \frac{2a}{c}$

$\frac{2}{c}$

2) $\frac{5q-20}{5q^2} \times \frac{q^2}{q-4}$

1

3) $\frac{n^4}{4m+5} \times \frac{8m}{n^2}$

$\frac{mn^2}{2}$

5) $\frac{9v^3-3v}{v} \div \frac{3}{v}$

$v(3v^2-1)$

7) $\frac{3p^2q^2}{9pq} \times \frac{4q^2}{12p^2q}$

$\frac{q^2}{9p}$

8) $\frac{2z-4}{4z^2-8z} \div \frac{2z}{8z^2}$

2

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