

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

## Simplifying Rational Expressions

Simplify each expression.

1)  $\frac{x^2 - 9x + 14}{x - 7}$

6)  $\frac{s^2 - s - 20}{s + 4}$

2)  $\frac{8h - 64}{h - 8}$

7)  $\frac{24y^2}{32y^2}$

3)  $\frac{42q^2 - 86q + 40}{56q^2 - 19q - 15}$

8)  $\frac{10g - 10}{70}$

4)  $\frac{3n + 21}{6}$

9)  $\frac{48b}{16b^2}$

5)  $\frac{16d^2 + 68d - 18}{6d^2 + 33d + 27}$

10)  $\frac{21z^3}{18z^3}$



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## Simplifying Rational Expressions

Simplify each expression.

1)  $\frac{x^2 - 9x + 14}{x - 7}$

$x - 2$

6)  $\frac{s^2 - s - 20}{s + 4}$

$s - 5$

2)  $\frac{8h - 64}{h - 8}$

8

7)  $\frac{24y^2}{32y^2}$

$\frac{3}{4}$

3)  $\frac{42q^2 - 86q + 40}{56q^2 - 19q - 15}$

$\frac{2(3q - 4)}{8q + 3}$

8)  $\frac{10g - 10}{70}$

$\frac{g - 1}{7}$

4)  $\frac{3n + 21}{6}$

$\frac{n + 7}{2}$

9)  $\frac{48b}{16b^2}$

$\frac{3}{b}$

5)  $\frac{16d^2 + 68d - 18}{6d^2 + 33d + 27}$

$\frac{2(4d - 1)}{3(d + 1)}$

10)  $\frac{21z^3}{18z^3}$

$\frac{7}{6}$

