

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

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

## Simplifying Rational Expressions

Simplify each expression.

1)  $\frac{7g - 35}{35}$

6)  $\frac{b^2 - 6b - 7}{b - 7}$

2)  $\frac{q^2 - 10q + 24}{q^2 - 13q + 42}$

7)  $\frac{x + 8}{x^2 + 13x + 40}$

3)  $\frac{24}{4n - 32}$

8)  $\frac{7z - 35}{56}$

4)  $\frac{3c - 9}{c - 3}$

9)  $\frac{50h^3}{60h^3}$

5)  $\frac{20d^2 + 46d + 24}{32d^2 + 20d - 42}$

10)  $\frac{s + 2}{8s + 16}$



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## Simplifying Rational Expressions

Simplify each expression.

$$1) \frac{7g - 35}{35}$$

$$\frac{g - 5}{5}$$

$$2) \frac{q^2 - 10q + 24}{q^2 - 13q + 42}$$

$$\frac{q - 4}{q - 7}$$

$$3) \frac{24}{4n - 32}$$

$$\frac{6}{n - 8}$$

$$4) \frac{3c - 9}{c - 3}$$

$$3$$

$$5) \frac{20d^2 + 46d + 24}{32d^2 + 20d - 42}$$

$$\frac{5d + 4}{8d - 7}$$

$$6) \frac{b^2 - 6b - 7}{b - 7}$$

$$b + 1$$

$$7) \frac{x + 8}{x^2 + 13x + 40}$$

$$\frac{1}{x + 5}$$

$$8) \frac{7z - 35}{56}$$

$$\frac{z - 5}{8}$$

$$9) \frac{50h^3}{60h^3}$$

$$\frac{5}{6}$$

$$10) \frac{s + 2}{8s + 16}$$

$$\frac{1}{8}$$

