

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

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

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

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

## Simplifying Rational Expressions

Simplify each expression.

1)  $\frac{16y^6}{64y^6}$

6)  $\frac{10}{2z - 2}$

2)  $\frac{10c + 60}{40}$

7)  $\frac{5n + 35}{n + 7}$

3)  $\frac{15k^4}{18k^4}$

8)  $\frac{28q^4}{16q}$

4)  $\frac{d + 8}{2d + 16}$

9)  $\frac{45g^5}{54g}$

5)  $\frac{63h}{54h^3}$

10)  $\frac{b - 5}{5b - 25}$



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## Simplifying Rational Expressions

Simplify each expression.

$$1) \frac{16y^6}{64y^6}$$

$$\frac{1}{4}$$

$$2) \frac{10c + 60}{40}$$

$$\frac{c + 6}{4}$$

$$3) \frac{15k^4}{18k^4}$$

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

$$4) \frac{d + 8}{2d + 16}$$

$$\frac{1}{2}$$

$$5) \frac{63h}{54h^3}$$

$$\frac{7}{6h^2}$$

$$6) \frac{10}{2z - 2}$$

$$\frac{5}{z - 1}$$

$$7) \frac{5n + 35}{n + 7}$$

$$5$$

$$8) \frac{28q^4}{16q}$$

$$\frac{7q^3}{4}$$

$$9) \frac{45g^5}{54g}$$

$$\frac{5g^4}{6}$$

$$10) \frac{b - 5}{5b - 25}$$

$$\frac{1}{5}$$

