

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

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

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

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

## Simplifying Rational Expressions

Simplify each expression.

1)  $\frac{54d}{18d^3}$

6)  $\frac{8z + 32}{z + 4}$

2)  $\frac{40n^5}{30n^5}$

7)  $\frac{40p^4}{80p^4}$

3)  $\frac{q^2 - 2q - 3}{q^2 - 10q + 21}$

8)  $\frac{42c^2 - 19c + 2}{28c^2 + 20c - 8}$

4)  $\frac{y - 6}{7y - 42}$

9)  $\frac{2r - 14}{r - 7}$

5)  $\frac{s - 3}{s^2 - 8s + 15}$

10)  $\frac{72k^3}{27k}$



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## Simplifying Rational Expressions

Simplify each expression.

$$1) \frac{54d}{18d^3}$$

$$\frac{3}{d^2}$$

$$2) \frac{40n^5}{30n^5}$$

$$\frac{4}{3}$$

$$3) \frac{q^2 - 2q - 3}{q^2 - 10q + 21}$$

$$\frac{q + 1}{q - 7}$$

$$4) \frac{y - 6}{7y - 42}$$

$$\frac{1}{7}$$

$$5) \frac{s - 3}{s^2 - 8s + 15}$$

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

$$6) \frac{8z + 32}{z + 4}$$

$$8$$

$$7) \frac{40p^4}{80p^4}$$

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

$$8) \frac{42c^2 - 19c + 2}{28c^2 + 20c - 8}$$

$$\frac{6c - 1}{4(c + 1)}$$

$$9) \frac{2r - 14}{r - 7}$$

$$2$$

$$10) \frac{72k^3}{27k}$$

$$\frac{8k^2}{3}$$

