

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

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

## Simplifying Rational Expressions

Simplify each expression.

1)  $\frac{12s^2}{6s^3}$

6)  $\frac{d + 2}{3d + 6}$

2)  $\frac{42}{6z + 54}$

7)  $\frac{7k - 42}{k - 6}$

3)  $\frac{12b^3}{8b^3}$

8)  $\frac{14q^2 - 64q + 32}{16q^2 - 66q + 8}$

4)  $\frac{y + 4}{6y + 24}$

9)  $\frac{p^2 + 3p - 10}{p - 2}$

5)  $\frac{r + 5}{r^2 + 4r - 5}$

10)  $\frac{3g - 3}{g - 1}$



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Simplify each expression.

$$1) \frac{12s^2}{6s^3}$$

$$\frac{2}{s}$$

$$2) \frac{42}{6z + 54}$$

$$\frac{7}{z + 9}$$

$$3) \frac{12b^3}{8b^3}$$

$$\frac{3}{2}$$

$$4) \frac{y + 4}{6y + 24}$$

$$\frac{1}{6}$$

$$5) \frac{r + 5}{r^2 + 4r - 5}$$

$$\frac{1}{r - 1}$$

$$6) \frac{d + 2}{3d + 6}$$

$$\frac{1}{3}$$

$$7) \frac{7k - 42}{k - 6}$$

$$7$$

$$8) \frac{14q^2 - 64q + 32}{16q^2 - 66q + 8}$$

$$\frac{7q - 4}{8q - 1}$$

$$9) \frac{p^2 + 3p - 10}{p - 2}$$

$$p + 5$$

$$10) \frac{3g - 3}{g - 1}$$

$$3$$

