

Name : _____

Score : _____

Teacher : _____

Date : _____

Dividing Rational Expressions

Simplify each expression.

1)
$$\frac{c + 9}{c + 15c + 54} \div \frac{3c}{c - 11}$$

6)
$$\frac{2g}{11} \div \frac{8}{4}$$

2)
$$\frac{10x^2 + 48x + 32}{30x^2 + 39x + 12} \div \frac{x^2}{72x^2 - 30x - 33}$$

7)
$$\frac{6k^2}{8} \div \frac{12k}{4}$$

3)
$$\frac{3b^2}{11} \div \frac{10b}{7}$$

8)
$$\frac{n^2 + 12n + 35}{n^2 + 17n + 70} \div \frac{1}{n + 10}$$

4)
$$\frac{2h}{h - 12} \div \frac{2h}{7h - 84}$$

9)
$$\frac{y^2 + 20y + 99}{y^2 + 16y + 63} \div \frac{1}{y + 7}$$

5)
$$\frac{30d - 20}{8} \div \frac{15d - 10}{8d}$$

10)
$$\frac{9z}{z - 2} \div \frac{9z}{6z - 12}$$



Name : _____

Score : _____

Teacher : _____

Date : _____

Dividing Rational Expressions

Simplify each expression.

$$1) \frac{c + 9}{c + 15c + 54} \div \frac{3c}{c - 11}$$

$$\frac{c - 11}{3c(c + 6)}$$

$$6) \frac{2g}{11} \div \frac{8}{4}$$

$$\frac{g}{11}$$

$$2) \frac{10x^2 + 48x + 32}{30x^2 + 39x + 12} \div \frac{x^2}{72x^2 - 30x - 33}$$

$$\frac{2(1x + 4)(12x - 11)}{x^2}$$

$$7) \frac{6k^2}{8} \div \frac{12k}{4}$$

$$\frac{k}{4}$$

$$3) \frac{3b^2}{11} \div \frac{10b}{7}$$

$$\frac{21b}{110}$$

$$8) \frac{n^2 + 12n + 35}{n^2 + 17n + 70} \div \frac{1}{n + 10}$$

$$n + 5$$

$$4) \frac{2h}{h - 12} \div \frac{2h}{7h - 84}$$

$$7$$

$$9) \frac{y^2 + 20y + 99}{y^2 + 16y + 63} \div \frac{1}{y + 7}$$

$$y + 11$$

$$5) \frac{30d - 20}{8} \div \frac{15d - 10}{8d}$$

$$2d$$

$$10) \frac{9z}{z - 2} \div \frac{9z}{6z - 12}$$

$$6$$

