

Name : _____

Score : _____

Teacher : _____

Date : _____

Dividing Rational Expressions

Simplify each expression.

$$1) \frac{60p^2 + 2p - 40}{24p^2 - 112p - 110} \div \frac{p^2}{12p^2 - 50p - 88}$$

$$6) \frac{10c}{c - 9} \div \frac{10c}{11c - 99}$$

$$2) \frac{2x^2}{7} \div \frac{5x}{11}$$

$$7) \frac{q + 3}{q + 13q + 30} \div \frac{8q}{q - 12}$$

$$3) \frac{4s}{s + 5} \div \frac{4s}{3s + 15}$$

$$8) \frac{12r}{8} \div \frac{9}{3}$$

$$4) \frac{b^2 + 21b + 110}{b^2 + 13b + 30} \div \frac{1}{b + 3}$$

$$9) \frac{y - 11}{y - 2y - 99} \div \frac{12y}{y - 2}$$

$$5) \frac{12n + 20}{8} \div \frac{24n + 40}{8n}$$

$$10) \frac{9g}{g - 12} \div \frac{9g}{7g - 84}$$



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Dividing Rational Expressions

Simplify each expression.

$$1) \frac{60p^2 + 2p - 40}{24p^2 - 112p - 110} \div \frac{p^2}{12p^2 - 50p - 88}$$

$$\frac{2(5p - 4)(3p + 4)}{p^2}$$

$$6) \frac{10c}{c - 9} \div \frac{10c}{11c - 99}$$

$$11$$

$$2) \frac{2x^2}{7} \div \frac{5x}{11}$$

$$\frac{22x}{35}$$

$$7) \frac{q + 3}{q + 13q + 30} \div \frac{8q}{q - 12}$$

$$\frac{q - 12}{8q(q + 10)}$$

$$3) \frac{4s}{s + 5} \div \frac{4s}{3s + 15}$$

$$3$$

$$8) \frac{12r}{8} \div \frac{9}{3}$$

$$\frac{r}{2}$$

$$4) \frac{b^2 + 21b + 110}{b^2 + 13b + 30} \div \frac{1}{b + 3}$$

$$b + 11$$

$$9) \frac{y - 11}{y - 2y - 99} \div \frac{12y}{y - 2}$$

$$\frac{y - 2}{12y(y - 9)}$$

$$5) \frac{12n + 20}{8} \div \frac{24n + 40}{8n}$$

$$\frac{n}{2}$$

$$10) \frac{9g}{g - 12} \div \frac{9g}{7g - 84}$$

$$7$$

