

Name : _____

Score : _____

Teacher : _____

Date : _____

Dividing Rational Expressions

Simplify each expression.

$$1) \frac{7b^2}{9} \div \frac{11b}{4}$$

$$6) \frac{10d}{6} \div \frac{12}{4}$$

$$2) \frac{k+8}{k+13k+40} \div \frac{12k}{k-9}$$

$$7) \frac{28h^2 - 2h - 66}{14h^2 - 1h - 33} \div \frac{h^2}{18h^2 + 51h + 36}$$

$$3) \frac{5g}{g+6} \div \frac{5g}{4g+24}$$

$$8) \frac{12y}{11} \div \frac{7}{3}$$

$$4) \frac{4n^2}{9} \div \frac{2n}{5}$$

$$9) \frac{x^2 + 10x + 21}{x^2 + 16x + 63} \div \frac{1}{x+9}$$

$$5) \frac{7q}{12} \div \frac{11}{5}$$

$$10) \frac{4c}{c-6} \div \frac{4c}{11c-66}$$



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Dividing Rational Expressions

Simplify each expression.

1) $\frac{7b^2}{9} \div \frac{11b}{4}$

$$\frac{28b}{99}$$

6) $\frac{10d}{6} \div \frac{12}{4}$

$$\frac{5d}{9}$$

2) $\frac{k+8}{k+13k+40} \div \frac{12k}{k-9}$

$$\frac{k-9}{12k(k+5)}$$

7) $\frac{28h^2 - 2h - 66}{14h^2 - 1h - 33} \div \frac{h^2}{18h^2 + 51h + 36}$

$$\frac{6(2h+3)(3h+4)}{h^2}$$

3) $\frac{5g}{g+6} \div \frac{5g}{4g+24}$

$$4$$

8) $\frac{12y}{11} \div \frac{7}{3}$

$$\frac{36y}{77}$$

4) $\frac{4n^2}{9} \div \frac{2n}{5}$

$$\frac{10n}{9}$$

9) $\frac{x^2 + 10x + 21}{x^2 + 16x + 63} \div \frac{1}{x+9}$

$$x+3$$

5) $\frac{7q}{12} \div \frac{11}{5}$

$$\frac{35q}{132}$$

10) $\frac{4c}{c-6} \div \frac{4c}{11c-66}$

$$11$$

