

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

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

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

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

## Dividing Rational Expressions

Simplify each expression.

$$1) \frac{x+6}{x+14x+48} \div \frac{7x}{x-10}$$

$$6) \frac{8y^2}{2} \div \frac{6y}{12}$$

$$2) \frac{2s^2}{6} \div \frac{4s}{12}$$

$$7) \frac{5z}{z+8} \div \frac{5z}{10z+80}$$

$$3) \frac{k+11}{k+19k+88} \div \frac{7k}{k-10}$$

$$8) \frac{10p}{5} \div \frac{9}{7}$$

$$4) \frac{r^2+15r+36}{r^2+19r+84} \div \frac{1}{r+7}$$

$$9) \frac{7d}{d+11} \div \frac{7d}{5d+55}$$

$$5) \frac{32q-12}{6} \div \frac{56q-21}{6q}$$

$$10) \frac{72g^2-12g-24}{96g^2+104g+28} \div \frac{g^2}{36g^2-39g-35}$$



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$$1) \frac{x+6}{x+14x+48} \div \frac{7x}{x-10}$$

$$\frac{x-10}{7x(x+8)}$$

$$6) \frac{8y^2}{2} \div \frac{6y}{12}$$

$$8y$$

$$2) \frac{2s^2}{6} \div \frac{4s}{12}$$

$$s$$

$$7) \frac{5z}{z+8} \div \frac{5z}{10z+80}$$

$$10$$

$$3) \frac{k+11}{k+19k+88} \div \frac{7k}{k-10}$$

$$\frac{k-10}{7k(k+8)}$$

$$8) \frac{10p}{5} \div \frac{9}{7}$$

$$\frac{14p}{9}$$

$$4) \frac{r^2+15r+36}{r^2+19r+84} \div \frac{1}{r+7}$$

$$r+3$$

$$9) \frac{7d}{d+11} \div \frac{7d}{5d+55}$$

$$5$$

$$5) \frac{32q-12}{6} \div \frac{56q-21}{6q}$$

$$\frac{4q}{7}$$

$$10) \frac{72g^2-12g-24}{96g^2+104g+28} \div \frac{g^2}{36g^2-39g-35}$$

$$\frac{3(3g-2)(3g-5)}{g^2}$$

