

Divide Decimals by Decimals 3

1. Write a division sentence.

a. How many times does 1.5 fit into 6?

b. How many times does 0.3 fit into 0.9?

c. How many times does 0.04 fit into 0.12?

c. How many times does 0.09 fit into 0.81?

2. Equivalent rational expressions... continue them according to the pattern!

a. $\frac{800}{200} = \frac{\square}{20} = \frac{\square}{2} = \frac{0.8}{0.2} = \frac{\square}{0.02} =$

b. $\frac{\square}{\square} = \frac{\square}{\square} = \frac{1.14}{0.02} = \frac{\square}{0.2} = \frac{\square}{2} = \frac{\square}{20} = \frac{\square}{200} =$

3. Divide *mentally* and compare the problems. Start from problems you know!

<p>a. $0.9 \div 0.3$ $9 \div 0.3$ $90 \div 0.3$ $900 \div 0.3$</p>	<p>b. $100 \div 0.5$ $10 \div 0.5$ $1 \div 0.5$ $0.1 \div 0.5$</p>	<p>c. $0.18 \div 0.02$ $1.8 \div 0.2$ $1.8 \div 0.02$ $0.18 \div 0.002$</p>	<p>d. $0.18 \div 10$ $1.08 \div 100$ $0.29 \div 1000$ $25 \div 1000$</p>
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4. Divide using long division. Use a bar to indicate a repeating decimal.

a.
$$\begin{array}{r} 9.85 \\ 0.05 \overline{) } \end{array}$$

b.
$$\begin{array}{r} 0.365 \\ 0.8 \overline{) } \end{array}$$

c.
$$\begin{array}{r} 635.7 \\ 0.11 \overline{) } \end{array}$$

d.
$$\begin{array}{r} 32 \\ 0.6 \overline{) } \end{array}$$

5. Solve the equations.

a. $5x = 0.98$

b. $2.4m = 0.238$

c. $10,000y = 358$