

Name: Class:

Divide by decimals

Divide the following problems. Give the exact answer, written as a decimal.

a. $0.2 \overline{) 8.42}$

b. $0.08 \overline{) 5.216}$

c. $1.3 \overline{) 0.65}$

d. $0.12 \overline{) 121.35}$

e. $0.5 \overline{) 10.62}$

f. $0.04 \overline{) 2.716}$

g. $3.6 \overline{) 1.30}$

h. $0.45 \overline{) 312.26}$

i. $5.7 \overline{) 0.89}$

j. $0.37 \overline{) 412.14}$

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Divide the following problems. Give the exact answer, written as a decimal.

a. $0.2 \overline{) 8.42}$

First of all, move the decimal point to the right in both the dividend and divisor.

$0.2 \overline{) 8.42} \longrightarrow 2 \overline{) 84.2}$

Secondly, perform the division to get the quotient.

$$\begin{array}{r} 42.1 \\ 2 \overline{) 84.2} \\ \underline{- 8} \\ 04 \\ \underline{- 4} \\ 02 \\ \underline{- 2} \\ 0 \end{array}$$

So, $8.42 \div 0.2 = 42.1$.

c. $1.3 \overline{) 0.65}$

First of all, move the decimal point to the right in both the dividend and divisor.

$1.3 \overline{) 0.65} \longrightarrow 13 \overline{) 6.5}$

Secondly, perform the division to get the quotient.

$$\begin{array}{r} 0.5 \\ 13 \overline{) 6.5} \\ \underline{- 0} \\ 65 \\ \underline{- 65} \\ 0 \end{array}$$

So, $0.65 \div 1.3 = 0.5$.

b. $0.08 \overline{) 5.216} = 65.2$

d. $0.12 \overline{) 121.35} = 1,011.25$