

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.  $0.12 \overline{) 121.35}$



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## Divide by decimals

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

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

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

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

So,  $0.65 \div 1.3 = 0.5$

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

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