

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

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



## Divide Decimals

Directions: Determine the quotient for each of the questions below.

1

$7.315 \div 0.05$

$0.05 \overline{)7.315} \rightarrow 5 \overline{)731.5}$

Note: The decimal moved 2 places in the divisor to become a whole number, so it moved 2 places in the dividend.

$$\begin{array}{r} 146.3 \\ 5 \overline{)731.5} \\ \underline{-5} \phantom{0} \phantom{0} \phantom{0} \\ 23 \phantom{0} \phantom{0} \phantom{0} \\ \underline{-20} \phantom{0} \phantom{0} \phantom{0} \\ 31 \phantom{0} \phantom{0} \phantom{0} \\ \underline{-30} \phantom{0} \phantom{0} \phantom{0} \\ 15 \phantom{0} \phantom{0} \phantom{0} \\ \underline{-15} \phantom{0} \phantom{0} \phantom{0} \\ 0 \phantom{0} \phantom{0} \phantom{0} \end{array}$$

Final Answer:  
**146.3**

2

$78.2 \div 0.2$

$0.2 \overline{)78.2} \rightarrow 2 \overline{)782}$

Note: The decimal moved 1 place in the divisor to become a whole number, so it moved 1 place in the dividend.

$$\begin{array}{r} 391 \\ 2 \overline{)782} \\ \underline{-6} \phantom{0} \phantom{0} \\ 18 \phantom{0} \phantom{0} \\ \underline{-18} \phantom{0} \phantom{0} \\ 02 \phantom{0} \phantom{0} \\ \underline{-2} \phantom{0} \phantom{0} \\ 0 \phantom{0} \phantom{0} \end{array}$$

Final Answer:  
**391**

3

$0.03042 \div 0.006$

$0.006 \overline{)0.03042} \rightarrow 6 \overline{)30.42}$

Note: The decimal moved 3 places in the divisor to become a whole number, so it moved 3 places in the dividend.

$$\begin{array}{r} 5.07 \\ 6 \overline{)30.42} \\ \underline{-30} \phantom{0} \phantom{0} \\ 04 \phantom{0} \phantom{0} \\ \underline{-0} \phantom{0} \phantom{0} \\ 42 \phantom{0} \phantom{0} \\ \underline{-42} \phantom{0} \phantom{0} \\ 0 \phantom{0} \phantom{0} \end{array}$$

Final Answer:  
**5.07**

4

$27 \div 0.3$

$0.3 \overline{)27.0} \rightarrow 3 \overline{)270}$

Note: The decimal moved 1 place in the divisor to become a whole number, so it moved 1 place in the dividend. Here, you had to annex one zero to move the decimal.

$$\begin{array}{r} 90 \\ 3 \overline{)270} \\ \underline{-27} \phantom{0} \\ 00 \phantom{0} \\ \underline{-0} \phantom{0} \\ 0 \phantom{0} \end{array}$$

Final Answer:  
**90**