Operations with Decimals

1. Perform the indicated operation.

a) $0.4 + 0.7$

b) $0.83 - 0.5$

c) $0.12(0.04)$

d) $0.20(0.02)$

e) $0.5 \div 0.8$

f) $0.18 \div 0.24$

2. Perform the indicated operation.

a) $0.0305 + 0.0401$

b) $0.83 - 2$

c) $2.051(0.14)$

d) $-20.5(1.5)$

e) $\frac{3.4}{17}$

f) $13.65 \div 35$

Operations with Decimals

1. Perform the indicated operation.

a) $0.4 + 0.7$

$\frac{4}{10} + \frac{7}{10}$

$\frac{11}{10}$

0.4
$+0.7$
1.1

b) $0.83 - 0.5$

0.83
-0.50
0.33

c) $0.12(0.04)$

0.12
$\times 0.04$

12
$\times 4$
48

0.0048

d) $0.20(0.02)$

0.20
$\times 0.02$

20
$\times 2$
40

0.0040
0.004

e) $0.5 \div 0.8$

$0.8\overline{)0.5}$

0.625
$8\overline{)5.000}$
-48
20
-16
40
-40
0

0.625

-or-

$\frac{5}{10} \div \frac{8}{10} = \frac{5}{\cancel{10}} \cdot \frac{\cancel{10}}{8} = \frac{5}{8}$

f) $0.18 \div 0.24$

$0.24\overline{)0.18}$

0.75
$24\overline{)18.0}$
168
120
-120
0

-or-

$\frac{18}{100} \div \frac{24}{100}$

$\frac{\cancel{18}^{3}}{\cancel{100}} \cdot \frac{\cancel{100}}{\cancel{24}_{4}}$

$\frac{3}{4} = 0.75$

2. Perform the indicated operation.

a) $0.0305 + 0.0401$

$$\begin{array}{r} 0.0305 \\ +\ 0.0401 \\ \hline 0.0706 \end{array}$$

b) $0.83 - 2$

$$\begin{array}{r} 2 - 0.83 \\ \hline 1\ 9\ 10 \\ 2.\cancel{0}\cancel{0} \\ -\ 0.83 \\ \hline 1.17 \end{array}$$

$0.83 - 2$

$-(2 - 0.83)$

$-(1.17)$

-1.17

c) $2.051(0.14)$

$$\begin{array}{r} 2.051 \\ \times\ \ 0.14 \\ \hline 8204 \\ +\ 20510 \\ \hline 0.28714 \end{array}$$

0.28714

d) $-20.5(1.5)$

Neg × Pos = Neg

$$\begin{array}{r} 20.5 \\ \times\ \ 1.5 \\ \hline 1025 \\ +\ 2050 \\ \hline 30.75 \end{array}$$

-30.75

e) $\dfrac{3.4}{17} = 0.2$

$$\begin{array}{r} 0.2 \\ 17\overline{)3.4} \\ -\ 34 \\ \hline 0 \end{array}$$

— OR —

$3\frac{4}{10} \div 17$

$\frac{34}{10} \cdot \frac{1}{17}$

$\frac{2}{10} = 0.2$

f) $13.65 \div 35 = 0.39$

$$\begin{array}{r} 0.39 \\ 35\overline{)13.65} \\ -\ 105 \\ \hline 315 \\ -\ 315 \\ \hline 0 \end{array}$$