

Section 4.4 Dividing Decimals

16. $40.8 \div 8$

inside outside

$$\begin{array}{r} 5.1 \\ 8 \overline{) 40.8} \\ \underline{-40} \\ 08 \\ \underline{-08} \\ 0 \end{array}$$

= 5.1

when the outside # is a whole number, move the decimal straight up in your answer.

22. $32 \overline{) 125.12}$

$$\begin{array}{r} 3.91 \\ 32 \overline{) 125.12} \\ \underline{-96} \\ 291 \\ \underline{-288} \\ 32 \\ \underline{-32} \\ 0 \end{array}$$

$$\begin{array}{r} 32 \\ \times 4 \\ \hline 128 \end{array} \quad \begin{array}{r} 32 \\ \times 9 \\ \hline 288 \end{array}$$

ex: $16.4 \div .5$

$$\begin{array}{r} 32.8 \\ .5 \overline{) 16.40} \\ \underline{-15} \\ 14 \\ 0 \\ \underline{-10} \\ 40 \\ \underline{-40} \\ 0 \end{array}$$

= 32.8

when the outside # is a decimal, move both decimals until you have a whole number on the outside.

32. $\frac{16.43 \text{ in}}{0.9 \text{ out}}$

$$\begin{array}{r}
 18.255 \\
 0.9 \overline{) 16.4300} \\
 \underline{-9} \\
 74 \\
 \underline{-72} \\
 23 \\
 \underline{-18} \\
 50 \\
 \underline{-45} \\
 50 \\
 \underline{-45} \\
 5
 \end{array}$$

repeating decimal
 $18.2\overline{5}$ ← overbar

\approx approximately
 =
 rounding

round to the nearest hundredth

$$\begin{array}{r}
 18.255 \\
 \uparrow \\
 \approx 18.26
 \end{array}$$

approximately = to

Bingo

① $8.5 + 3.6 = 12.1$

$$\begin{array}{r}
 8.5 \\
 3.6 \\
 \hline
 12.1
 \end{array}$$

② $12.6 + 9.34 = 21.94$

$$\begin{array}{r}
 12.60 \\
 9.34 \\
 \hline
 21.94
 \end{array}$$

③ $63.008 + 8.93 + 7.043 + 51.77$

$$= 130.751$$

$$\textcircled{4} \quad 0.75 - 0.42 \\ = 0.33$$

$$\textcircled{5} \quad .067 - .049 \\ = .018 \\ 0.018$$

$$\textcircled{6} \quad \text{Subtract } 6.607 \text{ from } 11.5$$
$$\begin{array}{r} 11.500 \\ - 6.607 \\ \hline 4.893 \end{array}$$

$$\textcircled{7} \quad -9.7 + (-5.2) \\ = -14.9$$

$$\begin{array}{r} 9.7 \\ 5.2 \\ \hline 14.9 \end{array}$$

$$\textcircled{8} \quad -13.6 + 8.4 \\ = -5.2$$

$$\begin{array}{r} 13.6 \\ - 8.4 \\ \hline -5.2 \end{array}$$

$$\textcircled{9} \quad -18.63 - (-13.74) \\ = -4.89$$

$$\textcircled{10} \quad \cancel{3.4} \times 7 \\ 3.4 \times 7 \\ 23.8$$

$$\begin{array}{r} 2 \\ 3.4 \\ \hline 23.8 \end{array}$$

$$\textcircled{11} \quad .03 \times 3 \\ .09$$

$$\begin{array}{r} .03 \\ 3 \\ \hline .09 \end{array}$$

$$(12) \quad .09 \times .007$$

00063

$$.00063 \quad .0063$$

$$(13) \quad 35.5 \div 5$$

$$\begin{array}{r} 7.1 \\ 5 \overline{) 35.5} \\ \underline{35} \\ 05 \end{array}$$

$$(14) \quad 5.723 \div 0.6$$

$$9.54$$

$$(15) \quad \text{Average of } 14.3, 20.6, 16.7, 11.2$$

$$\begin{array}{r} 14.3 \\ 20.6 \\ 16.7 \\ + 11.2 \\ \hline 62.8 \\ 15.7 \\ \hline 4 \overline{) 62.8} \\ \underline{-4} \\ 22 \\ \underline{-20} \\ 28 \\ \underline{-28} \\ 0 \end{array}$$

Decimal Bingo - add sub mult div.xls

Term	Definition
12.1	$8.5 + 3.6$ ✓
21.94	$12.6 + 9.34$ ✓
130.751	$63.008 + 8.93 + 7.043 + 51.77$ ✓
0.33	$0.75 - 0.42$ ✓
5.077	$8.554 - 3.477$ ✓
0.018	$0.067 - 0.049$ ✓
4.893	Subtract 6.607 from 11.5 ✓
23.8	3.4×7 ✓
0.09	0.03×3 ✓
0.0063	0.09×0.007 ✓
49.71	Multiply and round to the nearest hundredth: 680×0.0731
7.1	$35.5 / 5$ ✓
9.54	$5.723 / 0.6$ ✓
15.7	Take the average of 14.3, 20.6, 16.7, and 11.2
4.96	abs value of 4.96
0.341	abs value of -0.341
-14.9	$-9.7 + (-5.2)$ ✓
-5.2	$-13.6 + 8.4$ ✓
-4.89	$-18.63 - (-13.74)$ ✓
0.58	$-7.54 - (-8.12)$
-23.15	$-13.34 - 9.81$
-9.18	$-3.4(2.7)$
14.49	$(-6.3)(-2.3)$
4.54	$-18.16 / (-4)$
-0.61	$3.05 / (-5)$