

Chapter 3 Decimal Addition and Subtraction

3.6 Adding and Subtracting Decimals

Pages 148-156

NOTES (3.6) Adding and Subtracting Decimals

*p. 149 Key Concept *

Commutative Property of addition

add numbers in any order

Associative Property of addition

how numbers are grouped will not affect the total

To add or subtract decimals

- line up the decimal points
- annex zeroes, if necessary
- add or subtract
- bring the decimal point straight down

Do #12 – 18 like this

$$\begin{array}{r} 11) \quad 4.091 \\ + 5.870 \\ \hline 9.961 \end{array}$$

$$\begin{array}{r} 13) \quad 5.56 \\ - 2.30 \\ \hline 3.26 \end{array}$$

- 19) Must annex a zero; borrow from the 4 to make the zero a 10 then subtract

$$\begin{array}{r} 3 \\ 8.40 \\ - 3.06 \\ \hline 5.34 \end{array}$$

Do # 20-26 like this

23) $6.48 - x = 4.08$

$$\begin{array}{r} 6.48 \\ - 2.40 \\ \hline 4.08 \end{array}$$

25) $y - x = 6.35$

$$\begin{array}{r} 8.75 \\ - 2.40 \\ \hline 6.35 \end{array}$$

Do # 34-38 like this

35) $9.17 + 2.3 + 8.3 = 19.77$

$$\begin{array}{r} 9.17 \\ + 2.30 \\ \hline 8.30 \\ + 9.17 \\ \hline 19.77 \end{array}$$

$$37) \quad 8 + 3.17 - 5.83 = \textcircled{5.34}$$

$$\begin{array}{r} 8.00 \\ + 3.17 \\ \hline 11.17 \end{array}$$

$$\begin{array}{r} \overset{10}{\cancel{11.17}} \\ - 5.83 \\ \hline 5.34 \end{array}$$

Do #42 & 44 like this (2 pts each)

Solve

$$\begin{array}{r} 6.50 \\ 9.10 \\ + 5.85 \\ \hline \textcircled{21.45\text{mm}} \end{array}$$

Estimate

$$\begin{array}{r} 7 \\ 9 \\ 6 \\ \hline \textcircled{22} \end{array} \text{ - OR}$$

$$\begin{array}{r} \boxed{6.50} \\ \boxed{9.10} \\ \boxed{5.85} \end{array} \left. \vphantom{\begin{array}{r} \boxed{6.50} \\ \boxed{9.10} \\ \boxed{5.85} \end{array}} \right\} +2$$

$$\begin{array}{r} +20 \\ + 2 \\ \hline \textcircled{22} \end{array}$$

Do #46 & 48 like this

$$45) \quad 3.8 \text{ \& } 4.1 + 5.2 \boxed{>} 4.6 + 3.3 + 4.4$$

$$\begin{array}{r} 3.8 \\ 4.1 \\ 5.2 \\ \hline 13.1 \end{array} > \begin{array}{r} 4.6 \\ 3.3 \\ 4.4 \\ \hline 12.3 \end{array}$$

#60 = 2 pts