

2.2 Addition of Decimals w/ negatives p 52

- * decide if you are going to add or subtract first (according to the rules of addition ~ song)
- * if adding → rewrite vertically and line up decimals
- if subtracting → put the number w/ the higher absolute value on top ~ line up the decimals
- * decide if your answer is negative or positive

Examples

$$1) -4.05 + 7.62 = \begin{array}{r} 7.62 \\ 4.05 \\ + \\ \hline 3.57 \end{array}$$

$$2) -12.05 + 15.3 = \begin{array}{r} 15.30 \\ -12.05 \\ + \\ \hline 3.25 \end{array}$$

$$3) 0.65 + (-2.75) = \begin{array}{r} 2.75 \\ -0.65 \\ \hline -2.10 = -2.1 \end{array}$$

$$4) -0.7234 + 5 = \begin{array}{r} 5.0000 \\ -0.7234 \\ \hline 4.2766 \end{array}$$

$$5) -3 + 0.1234 = \begin{array}{r} 3.0000 \\ 0.1234 \\ \hline -2.8766 \end{array}$$

$$6) 12.04 + 2.01 = \begin{array}{r} 12.04 \\ 2.01 \\ \hline 14.05 \end{array}$$

$$7) -13.6 + 12 + 15.5 = \overset{6}{27.5} \\ -13.6 + 27.5 \quad \boxed{13.9}$$

$$8) (-5.6) + 12.6 + (-6.6) = \overset{12.6}{-12.2} \\ -12.2 + 12.6 \quad \boxed{0.4}$$

Evaluate if $x = -3.5$ and $y = 1.7$

$$a) x + y \\ -3.5 + 1.7 \\ \boxed{-1.8}$$

$$b) x + 2y \\ -3.5 + 2(1.7) \\ -3.5 + 3.4 \\ \boxed{-0.1}$$

$$c) -x + y \\ 3.5 + 1.7 \\ \boxed{5.2}$$

$$d) |x + -y| \\ |-3.5 + (-1.7)| \\ |-5.2| = \boxed{5.2}$$