

Name _____

Date _____

Mr. Tallman

Math 7

Homework #16 - Applying Fractions and Decimals

1) Sharon's house, the library, and Lisa's house are all on the same straight road. Sharon has to ride her bike $1\frac{3}{5}$ miles to get from her house to the library and another $2\frac{3}{4}$ miles to get from the library to Lisa's house. How far does Sharon live from Lisa?

$$1\frac{3}{5} + 2\frac{3}{4} \rightarrow \frac{32}{20} + \frac{55}{20} = \frac{87}{20} = 4\frac{7}{20} \text{ miles}$$

$\frac{4 \times 8}{4 \times 5} + \frac{4 \times 5}{4 \times 5}$

2) Diver Dan was diving at a depth of $9\frac{1}{2}$ meters below sea level. He then rose $3\frac{3}{4}$ meters. At what depth is Dan now diving?

$$-9\frac{1}{2} + 3\frac{3}{4}$$

$$\begin{array}{r} \times 2 \\ \times 2 \end{array} -\frac{19}{2} + \frac{15}{4}$$

$$-\frac{38}{4} + \frac{15}{4} = -\frac{23}{4} = -5\frac{3}{4} \text{ ft or } 5\frac{3}{4} \text{ ft below Sea level}$$

3) Grandma Gertrude is making chicken soup. The recipe that Grandma Gertrude uses calls for $\frac{2}{3}$ of a tablespoon of oregano to be added to the simmering soup every 30 minutes for 90 minutes. How much oregano is added after 90 minutes?

$$\frac{2}{3} \cdot \frac{3}{1} = \frac{6}{3} = 2 \text{ tablespoons}$$

4) Sean is on a diet. After 5 weeks, Sean has lost $7\frac{2}{3}$ pounds. How many pounds did Sean lose per week?

$$-7\frac{2}{3} \div \frac{5}{1}$$

$$-\frac{23}{3} \cdot \frac{1}{5} = -\frac{23}{15} = -1\frac{8}{15} \text{ or He lost } 1\frac{8}{15} \text{ pounds per week.}$$

