

Unit 2 Review Answer Key

$$\textcircled{1} \frac{3}{4} \cdot \frac{1}{2} = \frac{3}{8}$$

$$\textcircled{2} \begin{array}{r} 2.08 \\ \times 8.3 \\ \hline 624 \\ + 16640 \\ \hline 17.264 \end{array} = \$17.26$$

$$\textcircled{3} 2\frac{3}{4} + \frac{3}{8} = \frac{11}{4} + \frac{3}{8} = \frac{22}{8} + \frac{3}{8} = \frac{25}{8} \text{ or } 3\frac{1}{8} \text{ miles}$$

$$\textcircled{4} 2\frac{1}{8} + \left(-\frac{3}{5}\right) = \frac{17}{8} - \frac{3}{5} = \frac{85}{40} - \frac{24}{40} = \frac{61}{40} \text{ or } 1\frac{21}{40}$$

$$\textcircled{5} 1\frac{7}{9} \cdot -\frac{9}{5} = \frac{16}{9} \cdot -\frac{9}{5} = -\frac{16}{5} \text{ or } -3\frac{1}{5}$$

$$\textcircled{6} -2\frac{2}{5} \cdot -\frac{3}{2} = -\frac{12}{5} \cdot -\frac{3}{2} = \frac{18}{5} \text{ or } 3\frac{3}{5}$$

$$\textcircled{7} 42\frac{2}{3} \div \frac{1}{3} = \frac{128}{3} \div \frac{1}{3} = \frac{128}{3} \cdot \frac{3}{1} = 128 \text{ sandwiches}$$

$$\textcircled{8} \frac{7}{8} - \frac{1}{2} = \frac{7}{8} - \frac{4}{8} = \frac{3}{8} \text{ miles}$$

$$\textcircled{9} \frac{1}{4} + \frac{3}{8} = \frac{2}{8} + \frac{3}{8} = \frac{5}{8} \quad \frac{8}{8} - \frac{5}{8} = \frac{3}{8} \text{ of the playground}$$

$$(10) -0.91 \div -3 = 3 \overline{) 0.91000} = 0.30\bar{3}$$

$$\begin{array}{r} 0.3033 \\ -9 \downarrow \\ \hline 01 \\ -0 \downarrow \\ \hline 10 \\ -9 \downarrow \\ \hline 10 \end{array}$$

$$(11) 4 \cdot -1.54 = \begin{array}{r} 21 \\ 1.54 \\ \times 4 \\ \hline 6.16 \end{array} = -6.16$$

$$(12) 5.4 - (-5.3) = 5.4 + 5.3 = 5.4 + 5.3 = 10.7$$

$$\begin{array}{r} 5.4 \\ + 5.3 \\ \hline 10.7 \end{array}$$

$$(13) 2\frac{4}{7} \cdot 16 = \frac{18}{7} \cdot \frac{16}{1} = \frac{288}{7} \text{ or } 41\frac{1}{7} \text{ years}$$

$$(14) 7 \overline{) 4.000} < 17 \overline{) 8.000}$$

$$\begin{array}{r} -0.57 \\ 7 \overline{) 4.000} \\ \underline{-35} \downarrow \\ 50 \\ \underline{-49} \\ 1 \end{array} \quad \begin{array}{r} -0.47 \\ 17 \overline{) 8.000} \\ \underline{-68} \downarrow \\ 120 \\ \underline{-119} \\ 1 \end{array}$$

$$(15) -7.008 = -7 \frac{8}{1000} = -7 \frac{1}{125}$$

$$(16) 10 \div 5\frac{1}{2} = \frac{10}{1} \div \frac{11}{2} = \frac{10}{1} \cdot \frac{2}{11} = \frac{20}{11} \text{ or } 1\frac{9}{11}$$

$$(17) -\frac{1}{4} + 3\frac{4}{7} = -\frac{1}{4} + \frac{25}{7} = \frac{-7}{28} + \frac{100}{28} = \frac{93}{28} \text{ or } 3\frac{9}{28}$$

$$(18) 7.84 + (-5.2) = 7.84 - 5.2 = 7.84 - 5.20 = 2.64$$

$$\begin{array}{r} 7.84 \\ - 5.20 \\ \hline 2.64 \end{array}$$

$$\textcircled{19} \quad 0.6, -\frac{4}{5}, \frac{2}{3}, -1$$

In descending order it is... $\frac{2}{3}, 0.6, -\frac{4}{5}, -1$

$$\textcircled{20} \quad 36.8 \div 5 = 5 \overline{) 36.800} = 7.36 \text{ cm}$$

$$\begin{array}{r} 7.36 \\ -35 \\ \hline 180 \\ -150 \\ \hline 300 \\ -300 \\ \hline 0 \end{array}$$

$$\textcircled{21} \quad 4\frac{5}{6} = 6 \overline{) 5.000} = 4.8\bar{3}$$

$$\begin{array}{r} 4.8\bar{3} \\ -48 \\ \hline 200 \\ -180 \\ \hline 200 \\ -180 \\ \hline 20 \end{array}$$

$$\textcircled{22} \quad \frac{3}{2} + 1\frac{1}{6} = \frac{3}{2} + \frac{7}{6} = \frac{9}{6} + \frac{7}{6} = \frac{16}{6} = \frac{8}{3} \text{ or } 2\frac{2}{3}$$

$$\textcircled{23} \quad -6.696 \div -2.7 = 27 \overline{) 66.96} = 2.48$$

$$\begin{array}{r} 2.48 \\ -54 \\ \hline 129 \\ -108 \\ \hline 216 \end{array}$$

$$\textcircled{24} \quad 1\frac{1}{6} - \frac{1}{5} = \frac{7}{6} - \frac{1}{5} = \frac{35}{30} - \frac{6}{30} = \frac{29}{30}$$

$$\textcircled{25} \quad 16\frac{1}{2} \cdot \frac{1}{3} = \frac{33}{2} \cdot \frac{1}{3} = \frac{11}{2} \text{ or } 5\frac{1}{2} \text{ gallons}$$

$$\textcircled{26} \quad 425.82 + 120.75 - 185.90 = 425.82$$

$$\begin{array}{r} 425.82 \\ + 120.75 \\ \hline 546.57 \\ - 185.90 \\ \hline 360.67 \end{array} = \$360.67$$

$$(27) \frac{1}{3} + \frac{4}{12} = \frac{1}{3} + \frac{1}{3} = \frac{2}{3}$$

$$(28) 2\frac{1}{8} + \left(-\frac{3}{5}\right) = \frac{17}{8} - \frac{3}{5} = \frac{85}{40} - \frac{24}{40} = \frac{61}{40} \text{ or } 1\frac{21}{40}$$

$$(29) \begin{array}{r} -5.21 - 6.6 = 6.60 \\ + 5.21 \\ \hline 11.81 \end{array} = -11.81$$

$$(30) \begin{array}{r} -1.9 - (-0.39) = -1.9 + 0.39 = 1.9^{\cancel{0}} \\ - 0.39 \\ \hline 1.51 \end{array} = -1.51$$