

Student Name _____

Parent Sign. _____

Pre-Alg.
Ch. 6
Review

1) (note: 1 quart = 4 cups)
 6 cups to 5 quarts
 6 cups to 20 cups

$$2) \frac{59.95}{11} \div 11 = \frac{5.45}{1}$$

(unit rate, div. by den.) (B)

$$\begin{array}{r} 5.45 \\ 11 \overline{) 59.95} \\ \underline{55} \\ 49 \\ \underline{44} \\ 55 \\ \underline{55} \\ 0 \end{array}$$

$$\frac{6}{20} \div 2 = \frac{3}{10} \text{ (C)}$$

3) $\frac{x}{3} \leftrightarrow \frac{1.2}{4}$

$$\frac{4x}{4} = \frac{3.6}{4}$$

$$x = .9$$

(D)

4) $\frac{6 \text{ lbs}}{25 \text{ serv.}} \leftrightarrow \frac{x}{30 \text{ serv.}}$

$$\frac{180}{25} = \frac{25x}{25}$$

$$7.2 = x$$

(B)

5) $\frac{11}{25} = 25 \overline{) 11.00}$

$$\begin{array}{r} 44 \\ 25 \overline{) 11.00} \\ \underline{100} \\ 100 \\ \underline{100} \\ 0 \end{array}$$

44% (C)

6) $17\frac{1}{2}\%$

$\frac{17\frac{1}{2}}{100}$ means

$$17\frac{1}{2} \div 100$$

$$7 \frac{35}{2} \times \frac{1}{100} = \frac{7}{40}$$

(D)

7) 407%

(A)

8) $\frac{3}{5}, 0.65, 63\%$

$\frac{6}{10}, 0.65, .63$

(B)

5 out of 8

$$\frac{5}{8} = 8 \overline{) 5.000}$$

$$\begin{array}{r} .625 \\ 8 \overline{) 5.000} \\ \underline{48} \\ 20 \\ \underline{16} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

Percent Proportion
 $\frac{\text{is}}{\text{of}} = \frac{\%}{100}$

← 9, 10, 13

9) $\frac{x}{50} \leftrightarrow \frac{44}{100}$

$$\frac{100x}{100} = \frac{2200}{100}$$

$$x = 22$$

(C)

10) $\frac{36}{80} \leftrightarrow \frac{x}{100}$

$$\frac{3600}{80} = \frac{80x}{80}$$

$$45 = x$$

$$45\%$$

(A)

11) 80% of 60

$$\frac{80}{100} \div 20 = \frac{4}{5} \text{ (D)}$$

12) $\frac{1}{5}\%$ of 958
 (use 1% method) 1% of 1000

$$\frac{1}{5} \times 10$$

$$2$$

(D)

13) $\frac{14}{125} \leftrightarrow \frac{x}{100}$

$$\frac{1400}{125} = \frac{125x}{125}$$

$$11.2 = x$$

$$11.2\%$$

(B)

$$\begin{array}{r} 11.2 \\ 125 \overline{) 1400.0} \\ \underline{125} \\ 150 \\ \underline{125} \\ 250 \\ \underline{250} \\ 0 \end{array}$$

