

Unit 7 quiz adv. math

Study guide

Studyguide

① $3\frac{1}{9} \rightarrow$ decimal

$$\begin{array}{r} 0.1 \\ 9 \overline{) 10} \\ \underline{9} \\ 10 \end{array}$$

★ 3.1 decimal (move 2 x right)

percent: 311. $\bar{1}$ or $311\frac{1}{9}\%$

★ ↖

2.47 \rightarrow percent (move 2⁺ right) 247%
★

↓ read/write/reduce

$2\frac{47}{100}$ Fraction ★

$4\frac{5}{6}\% =$

$$4.8\bar{3}\%$$

$$6 \overline{) 50} \begin{array}{r} 0.8\bar{3} \\ \underline{48} \\ 20 \\ \underline{18} \\ 2 \end{array}$$

↙ move 2 left

★ $.048\bar{3}$, now convert to fraction $\frac{483-48}{9000}$

$= \frac{435}{9000} = \frac{87}{1800} = \frac{29}{600}$ ★

② $\frac{34}{64}$ Like math which means that

$\frac{30}{64}$ like LA

$$\frac{15}{32} = \frac{x}{100}$$

$$\frac{32x}{32} = \frac{1500}{32}$$

Long division!

$$x = \underline{\underline{46.87590}}$$

③

$$\frac{\$59.66}{27oz} = \frac{\$2.21}{103}$$

Long division

$$\frac{\$28.23}{13oz} = \frac{\$2.17}{103} \quad \star \text{ Better Buy}$$

Long division

④ $100 - 13 = 87\% \text{ represented by}$

$$\frac{84.83}{x} = \frac{87}{100}$$

$$\frac{87x}{87} = \frac{8483}{87} \quad \text{Long division!}$$

$$x = \$97.51$$

(5) $\frac{\$9.76}{\$276} = \frac{X}{100}$ \star Commission = part of the total \$ sales.

$$\frac{276x}{276} = \frac{976}{276}$$

$X = 3.5\%$

(6) Larry: $\frac{\$}{\text{hrs}} = 15 \frac{9}{14} / 7.3 =$

$$= \frac{219}{14} / 7 \frac{3}{10} =$$

$$= \frac{219}{14} \cdot \frac{10}{73} = \frac{15}{7} = \text{\$}2 \frac{1}{7} / \text{hr} \star$$

Curly: $\frac{\$}{\text{hrs}} = \frac{24.2}{11 \frac{22}{75}} = \frac{24 \frac{2}{10}}{11 \frac{22}{75}} = \frac{24 \frac{1}{5}}{11 \frac{22}{75}} =$

$$= \frac{12}{5} \cdot \frac{75}{847} = \frac{15}{7} = \text{\$}2 \frac{1}{7} / \text{hr} \star$$

Joe: $\frac{\$}{\text{hrs}} = \frac{15}{56} / 0.125 = \frac{15}{56} / \frac{1}{8} =$

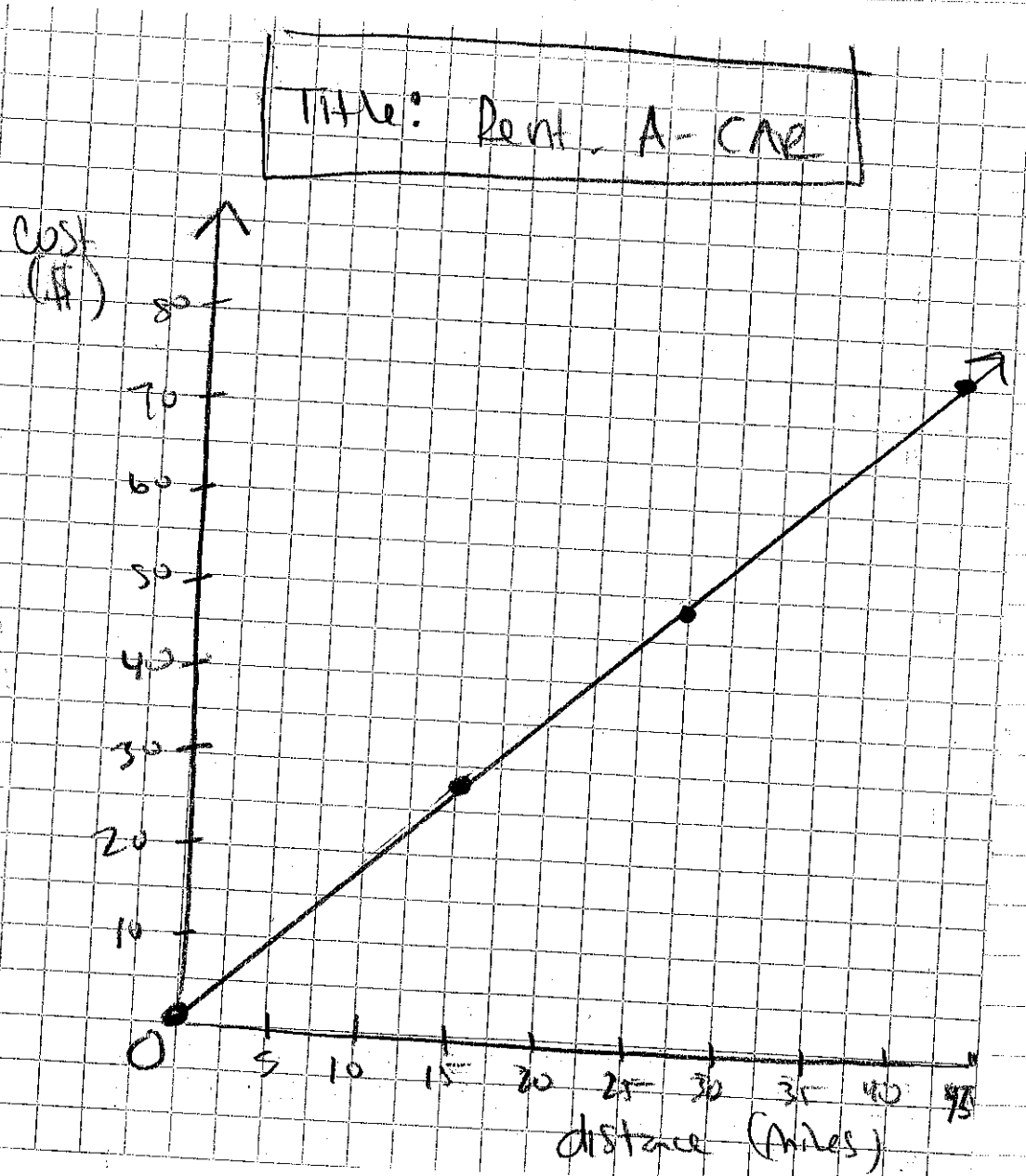
$$= \frac{15}{56} \cdot \frac{8}{1} = \frac{15}{7} = \text{\$}2 \frac{1}{7} / \text{hr} \star$$

Yes, it is proper-balance

Unit 7 quiz Study guide continued.

$\frac{\$ (y)}{\text{Miles } (x)}$

a) attached (below)



Since it is a straight line going through (0,0), pick any $\frac{y}{x}$

$$b) \frac{\$}{\text{miles}} = \frac{27}{15} = \frac{9}{5} \text{ or } \frac{4}{5} \text{ or } 1.8$$

$$c) y = \frac{9}{5}x \text{ or } y = \frac{4}{5}x \text{ or } y = 1.8x$$

$$d) \$153.00 \rightarrow y$$

$$153 = 1.8x \text{ or } \frac{153}{1.8} = \frac{9}{5}x \text{ or } \frac{153}{9} = \frac{17}{5}x$$

↓

$$5 \times 17 = x$$

$$85 = x$$

miles