

HMK 7 - KEY

PG 59

1.) PERCENTAGE = BASE \times RATE

a. $P = 493$, $R = 85\%$, $B = ?$

$$\frac{493}{.85} = \frac{B \times .85}{.85}$$

$$B = 580$$

b. $P = ?$, $R = 55\%$, $B = 125$

$$P = 125 \times .55$$

$$P = 68.75$$

c. $P = \$588$, $R = ?$, $B = \$840$

$$\frac{\$588}{\$840} = \frac{\$840 \times R}{\$840}$$

$$R = 0.7 \text{ or } 70\%$$

d. $P = ?$, $R = 22\%$, $B = 416.8$

$$P = 416.8 \times .22$$

$$P = 91.696$$

e. $P = 240$, $R = ?$, $B = 192$

$$\frac{240}{192} = \frac{192 \times R}{192}$$

$$R = 1.25 \text{ or } 125\%$$

HOMEWORK - LESSON 7 KEY

PG 59

$$3) 2550 \text{ FT}^2 \times 1.2 = \boxed{3060 \text{ FT}^2}$$

$$5) 1250 \text{ FT}^2 \times 1.08 = \boxed{1350 \text{ FT}^2}$$

60 13, 14, 15 PG 60

25

12% Margin

29

$$13) \$825 = .02 \times Y$$

$$\frac{\$825}{.02} = Y$$

$$Y = \$41250$$

$$14) a) 36,756 \times .48 = \boxed{\$17,642.88 \text{ MATERIAL}}$$

$$b) 36,756 \times .32 = \boxed{\$11,761.92 \text{ LABOR}}$$

$$15) \$1800 = .12 \times Y$$

$$\frac{\$1800}{.12} = Y$$

$$Y = \$15,000$$

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$$25) \text{ BID} = \$2300 \times 1.12 = \boxed{\$2576 -}$$

NOW, WITH 12% MARGIN

$$29) \quad 181,693.21 \times 1.23 = \boxed{\$223,482.65 \text{ COST} + 04}$$

$$223,482.65 \times 1.09 = \boxed{\$243,596.09 \text{ + PROFIT}}$$