

7.1.8

HWK

7-90)

a) $(2500)(0.04) = \$100$ per month in interest
 $\$2500 + \$100(12 \text{ months}) = \3700

b) $(2500)(0.01) = \$25$ per week interest,
 $\$2500 + \$25(52 \text{ wks}) = \$3800$

The first loan is better by \$100.

7-91)

\$40,000

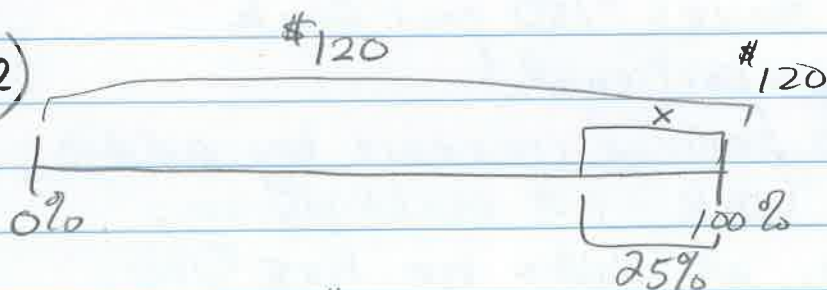
- 23,000

17,000 need to borrow

$\$17,000 + \$17,000(0.02)(6) = \$19,040$

7-92)

a)



a) 25% of $\$120 = \30

This is the discount, not the price!

b) Yes, because $\$120 - 30 = \90 ; he will have \$5 left over.

c) $90(0.055) = 4.95$ tax

Yes, he would have enough money 😊

7-93)

$$a) \quad x - \frac{2}{5} = 1\frac{3}{5}$$

$$5(x) - 5\left(\frac{2}{5}\right) = 5\left(1\frac{3}{5}\right)$$

$$5x - 2 = 8$$

$$\quad + 2 \quad + 2$$

$$\hline 5x = 10$$

$$\quad \frac{5}{5} \quad \frac{5}{5}$$

$$x = 2$$

$$b) \quad \frac{5x}{5} = \frac{0}{5}$$

$$x = 0$$

$$c) \quad x - 14.6 = 2.96$$

$$100x - (100)14.6 = (100)2.96$$

$$100x - 1460 = 296$$

$$\quad + 1460 \quad + 1460$$

$$\hline 100x = 1756$$

$$\quad \frac{100}{100} \quad \frac{100}{100}$$

$$x = 17.56$$

7-94) \$200 for birthday
saves \$150 each week

Not proportional!

His savings increase by adding money each week, not multiplying.

Also, at 0wks he has \$200.

7-95)

a) 25%

b) 50%

c) No, because individual data points are not given.

d) 5 is the median, it splits the data in half.