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Activity: More Percents 3/8

1) a.) profit = $0.20(2700)$ } or
 $p = \$540$ } $SP = 1.2(2700)$
selling price = $540 + 2700$ } $= \$3240$
 $SP = \$3240$

b.) loss = $0.15(3240)$
 $= \$486$
selling price = $3240 - 486$
 $SP = \$2754$

2) 1st month: 1200 } increased
 2nd month: } 15%

increased = $0.15(1200)$
 $\hookrightarrow = 180$

2nd month = $180 + 1200$
 $\hookrightarrow = 1380$ phones

3) a.) tax = % (amount)

$\frac{3.90}{0.05} = \frac{0.05(x)}{0.05}$

$78 = x$

b.) profit = $0.10(78)$

$p = 7.8$

price = $78 + 7.8$
w/markup = $\$85.80$

4.) yellow = 0.35 (200)
 yellow = 70 students

red = 0.20 (130)
 red = 26 students

$$\begin{array}{r} 200 \\ - 96 \\ \hline 104 \text{ students} \\ \uparrow \\ \text{blue} \end{array}$$

104 - 26 = 78 students chose blue than red

5.) oranges = 0.6P (400)
 O = 272

400 - 272 = 120 nectarines & apples

*

3/5 (apples)

$$\frac{3}{5} \frac{(120-x)}{1} = x$$

$$\begin{array}{r} 72 - 0.6x = x \\ + 0.6x \quad + 0.6x \\ \hline 72 = 1.6x \\ 1.6 \quad 1.6 \\ 45 = x \end{array}$$

↑
 - nectarines

March 8 Show work in your notebook on page 61 & 62.

1. Mr. Ruiz bought a truck for \$2,700. He sold it at a profit of 20% to Ms. Jackson. Ms. Jackson also sold it but at a loss of 15%.
 - a. How much did Mr. Ruiz sell the truck for?
 - b. How much did Ms. Jackson sell the truck for?
2. Mr. Patel's new company manufactures cell phones. The company produced 1,200 phones for the first month. He now expects that the number of cell phones produced to increase by 15% each month. Find the number of cell phones he expects his company to produce in the second month.
3. The tax on a pair of shoes is \$3.90. The tax levied is 5%.
 - a Find the price of shoes before tax.
 - b The pair of shoes is sold at a profit of 10%. Find the selling price of the pair of shoes after tax.
4. 200 students were surveyed and were asked to choose their favorite primary color. 35% of the students chose yellow, 20% of the remaining students chose red and the rest chose blue. How many more students chose blue than red?
5. At a fruit store, 68% of the fruit sold are oranges and the rest are nectarines and apples. The number of nectarines is $\frac{1}{3}$ of the number of apples. There are 400 pieces of fruit in all. How many nectarines are there?