- 4. The average speed of a large ant is 300 feet per hour. There are 12 inches in one foot, and 5,280 feet in a mile.
 - a. How many miles will an average large ant travel in a year?

b. How many inches will this ant travel in a second?

300 ff 12 th 1 kr 1 wh =
$$\frac{300.12}{60.60}$$
 in/see = $\frac{1}{1}$ in/see = $\frac{1}{1}$ tin/see = $\frac{1}{1}$ tin/see

5. Woodland market is selling 3 packs of toothpicks for \$.87. How much will 10 packs of toothpicks cost at this price? Round your answer to the nearest cent.

$$\frac{3}{0.87} = \frac{10}{x}$$

$$3x = 8.7$$

$$x = 2.9$$

$$10 \text{ parks cost } $2.9$$

 $\chi = 2.9$ 10 packs cost \$2.9

Sample problems that gon appear on the non-calculator section. This means that you leave your final answers in simplified fractions.

6. Solve the equations
$$a. \frac{x_0}{1} \frac{x - 3}{6} - \frac{4x}{5}. \frac{32}{12}. 30$$

$$5(x - 3) - 4x \cdot 6 = 60$$

$$5x - 15 - 24x = 60$$

$$-19x = 75$$

$$x = -\frac{75}{19}$$

b.
$$\frac{3+y}{4} = \frac{-y}{11}$$

 $-4y = 11(3+y)$
 $-4y = 33 + 11y$
 $15y = 33$
 $y = \frac{3311}{15 \cdot 3} = \boxed{11}$