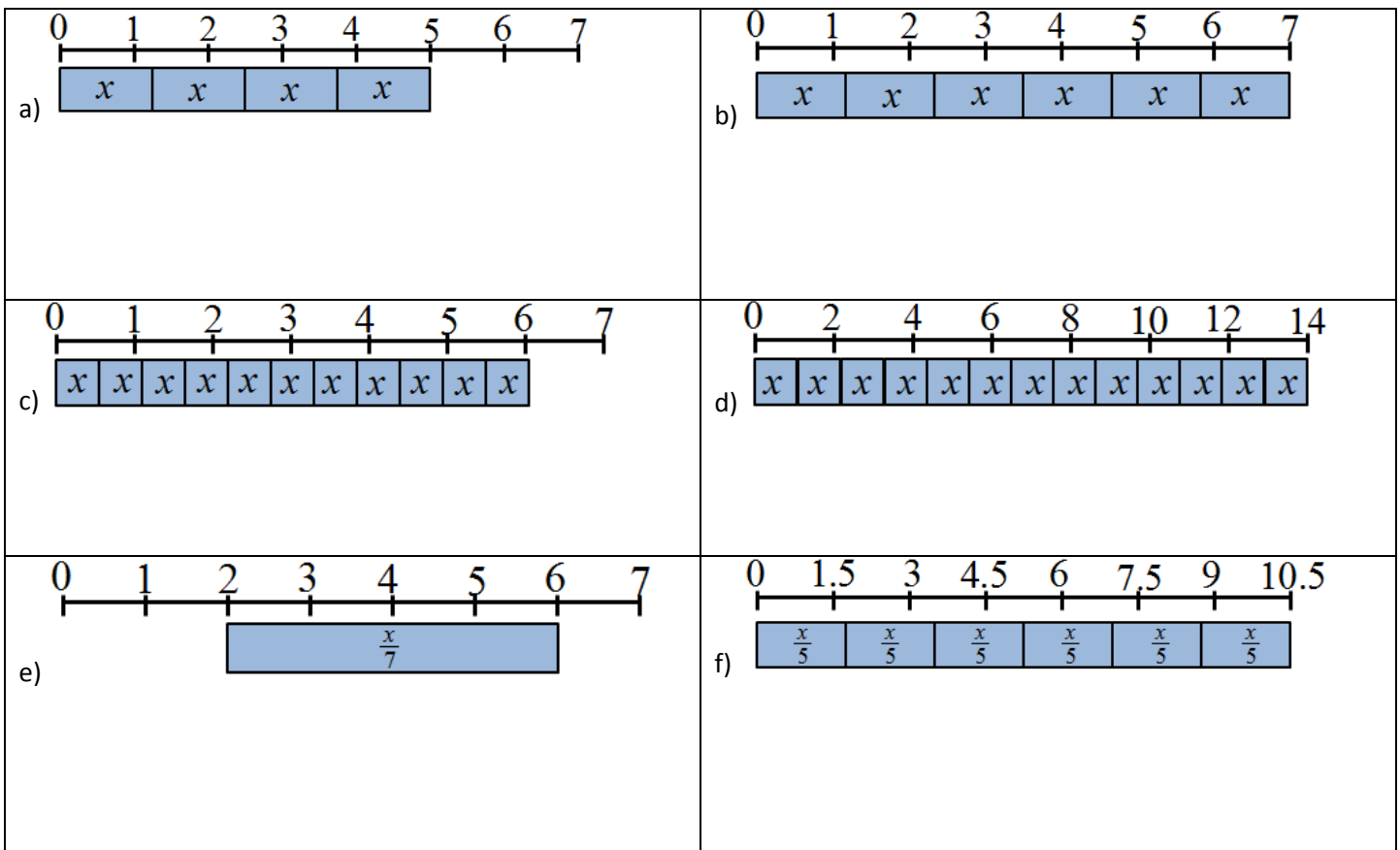


Name: _____

Date: _____

Math 8 Assignment 11.1 Solving Basic Math Equations

1. Given each diagram, find the length of each bar:



2. Given each equation, solve for the value of "x". Write your answer as a fraction if required:

a) $3x = 12$	b) $4x = 18$	c) $\frac{x}{3} = 5.5$
d) $5x = 19$	e) $\frac{x}{5} = 7.7$	f) $\frac{x}{4} = 14.2$
g) $\frac{3x}{4} = 8.2$	h) $\frac{4x}{5} = 20$	i) $\frac{3x}{2} = \frac{18}{16}$

3. The time (hours) that it takes an object to travel a certain distance(km) is equal to the distance divided by the speed (km/hr). $t = \frac{d}{s}$. How far can a car travel in 3.5 hours at 65km/hr?
4. 90% of all Eric's friends are in grade 8. If he has 27 friends in grade 8, how many friends does he have altogether?
5. Betty earns commission on $\frac{2}{9}$ of all her sales as a realtor. If she earned \$4200 In commission this month, how much was her total sales?
6. Kayla worked 195.5 days on her job and completed 97.75% of her contract. How many more days does she need to work to complete her work?
7. Nancy can cut 30% of her lawn in 2.5 hours. How many hours does she need to cut the entire lawn?
8. Solve the following equations:
- i) $\frac{3x}{2} = \frac{5}{4}$ ii) $\frac{5}{x} = \frac{13}{4}$ iii) $\frac{2}{3}x + 1 = 7$