1.

Animal	Pet Store A	Pet Store B	
cats	15	(11)	
dogs	(12)	16	
birds	13	14	

a. What is the ratio of cats at Pet Store B compared to dogs at Pet Store A?

11:12 or 11 to 12 or 11

b. What is the ratio of animals at Pet Store A to animals at Pet Store B?

 $\frac{15+12+13}{11+16+14} = \frac{40}{41} \text{ or } 40:41 \text{ or } 40 \text{ to}$

3. A bakery sells 30 cookies for \$48. How much will 12 cookies cost?

$$\frac{30}{$48} = \frac{12}{x} = \frac{30x}{30} = \frac{576}{30} \Rightarrow x = $19.20$$

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- 5. a) Is the expression $\frac{10}{16} = \frac{x}{56}$ a ratio, rate or proportion?
 - b) Solve: $\frac{10}{16} = \frac{x}{56}$

$$\frac{35}{16\sqrt{560}} \qquad \frac{560 = 16x}{16} \Rightarrow x = 35$$