

## 6<sup>th</sup> Grade Unit 4: Lesson 17-1

### Check Your Understanding (p. 217):

1. Infinitely many because you can multiply both terms in the ratio by any number.
2. Multiply both terms in 1:2 by a factor that will give the terms in the second ratio.
3. Five; 50:100, 25:50, 10:20, 5:10, 1:2.

### Lesson 17-1 Practice (p. 217):

4. a.  $\frac{3}{6} = \frac{1}{2}$ , 1:2, 1 to 2; part-to-whole  
b.  $\frac{2}{1}$ , 2:1, 2 to 1; part-to-part  
c.  $\frac{6}{5}$ , 6:5, 6 to 5; whole-to-part
5. a. 28 cats;  $\frac{4}{5} = \frac{28}{35}$   
b. 24 male cats:  $\frac{6}{7} = \frac{24}{28}$
6. 9 white rabbits
7. Vet A saw 16 dogs:  $\frac{2}{5} = \frac{16}{40}$ , Vet B  
saw 15 dogs:  $\frac{3}{8} = \frac{15}{40}$ ,  $16 > 15$ . Vet A  
saw more dogs.
8. Yes. In the ratios  $\frac{9}{10} = \frac{?}{30}$ , 30 is  
 $3 \times 10$ , so ? is  $3 \times 9$ , or 27.  
 $27 + 30 = 57$
9. 75 mice