5-2 Additional Practice

In 1–9, write three ratios that are equivalent to the given ratio.

1. $\frac{3}{5}$

2. $\frac{4}{8}$

3. $\frac{6}{18}$

4. 8:10

5. 6:8

6. 10:12

7. 12 to 18

8. 16 to 18

9. 5 to 25

In 10–15, use = or ≠ to show whether the ratios are equivalent.

10. 3:12 ◯ 6:24

11. $\frac{28}{16}$ ◯ $\frac{7}{4}$

12. 4 to 20 ◯ 1 to 4

13. $\frac{4}{6}$ ◯ $\frac{6}{9}$

14. 27 to 9 ◯ 24 to 4

15. 6:10 ◯ 8:15

In 16 and 17, complete the tables with equivalent ratios.

16. A wildlife conservancy maintains a ratio of 2 squirrels for every 8 birds. How many birds would there be if there were 15 squirrels?
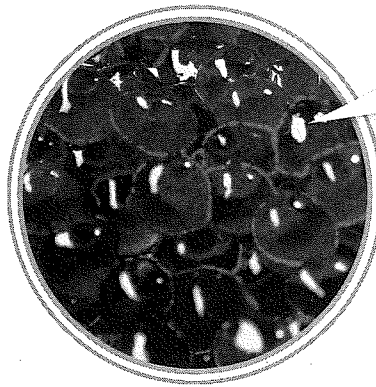
Animals					
Squirrels	2	4	5		15
Birds	8		20	40	

17. At Rolling Hills Middle School, the ratio of the total number of students to the number of students with pets is 3 to 1. If there are 243 students at the school, how many students have pets?

Number of Students with Pets	1	3	9		81
Total Number of Students	3	9		81	

18. Scientists study ways to increase the population of wild salmon. How many salmon eggs may be needed to produce 18 adult salmon?
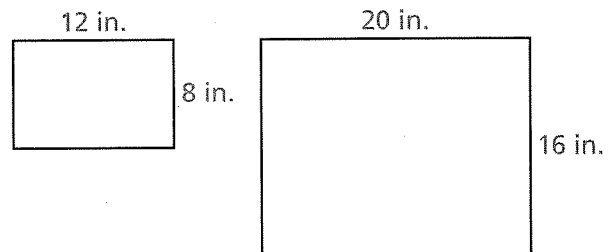
For every 8,000 eggs, only 2 adults may survive.

19. **Construct Arguments** Tell why you cannot multiply or divide by 0 to find equivalent ratios.

20. **Critique Reasoning** Dale says the ratios 3:5 and 2:10 are equivalent. Is he correct? Explain.

21. Is the ratio of length to width equivalent for these two rectangles? Explain.

12 in.

8 in.

20 in.

16 in.

22. **Higher Order Thinking** An animal shelter can hold a total of 60 cats and dogs. For every 5 cats the shelter can house, there is room for 7 dogs. How many cats and dogs are at the shelter when it is completely full?

23. **Be Precise** For a small music concert, each child in attendance will get a free toy trumpet. Five adults are expected for every 2 children. Find how many children are expected if there are 15 adults, 25 adults, and 40 adults.

☑ Assessment Practice

24. In a section of a lake, there are 8 sailboats for every 6 motorboats. Which could be the number of sailboats and motorboats? Select all that apply.

　☐ 14 sailboats, 12 motorboats

　☐ 24 sailboats, 18 motorboats

　☐ 32 sailboats, 24 motorboats

　☐ 4 sailboats, 2 motorboats

　☐ 4 sailboats, 3 motorboats

25. For every 8 boys in Kaley's class, there are 10 girls. Which could describe the students in Kaley's class? Select all that apply.

　☐ 4 boys, 5 girls

　☐ 10 boys, 12 girls

　☐ 12 boys, 14 girls

　☐ 16 boys, 20 girls

　☐ 10 boys, 8 girls

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