



PRACTICE



TUTORIAL

Name: _____

Practice & Problem Solving

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Multimedia

In 9–14, use the data to write a ratio for each comparison in three different ways.

A person's blood type is denoted with the letters A, B, and O, and the symbols + and -. The blood type A+ is read as *A positive*. The blood type B- is read as *B negative*.

9. O+ donors to A+ donors

10. AB- donors to AB+ donors

11. B+ donors to total donors

12. O- donors to A- donors

13. A+ and B+ donors to AB+ donors

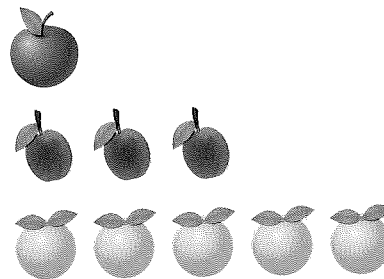
14. A- and B- donors to AB- donors

15. Which comparison does the ratio $\frac{90}{9}$ represent?

16. Which comparison does the ratio 20:21 represent?

Type	Donors
A+	45
B+	20
AB+	6
O+	90
A-	21
B-	0
AB-	4
O-	9
Total	195

17. Sam is packing gift boxes with fruit. For each apple, he packs 3 plums and 5 oranges. If he puts 3 apples in a box, how many plums and oranges will Sam put in the box? Draw a diagram to solve the problem.



18. Write a ratio that compares the number of teal squares to the total number of squares in the quilt.



19. Reasoning Rita's class has 14 girls and 16 boys. How does the ratio 14:30 describe Rita's class?



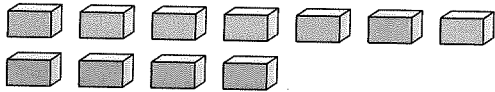
20. A math class surveyed students about their musical preferences and recorded the results in the table. Use the data to write a ratio for each comparison in three different ways.

Favorite Music

Music Type	Number of Students
Rock	10
Classical	4
Techno	12
Hip-Hop	15
Country	8
Alternative	4

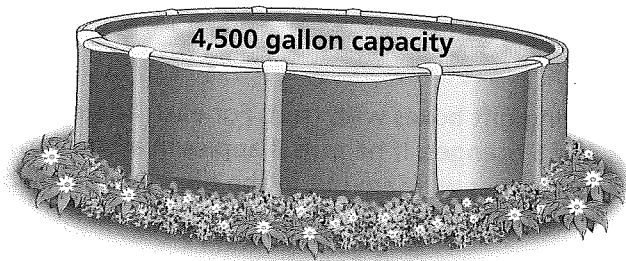
- Students who prefer classical to students who prefer techno
- Students who prefer hip-hop to total number of students surveyed

21. **Construct Arguments** Justin used blocks to model the following situation: A car dealership sells 7 cars for every 4 minivans it sells. How can Justin use his model to find the number of minivans the dealership sells if it sells 35 cars?



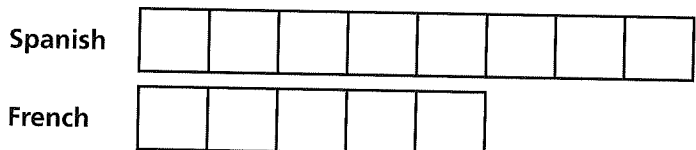
22. **Make Sense and Persevere** The ratio of adult dogs to puppies at a park on Monday was 3:2. There were 12 puppies there that day. On Tuesday, 15 adult dogs were at the park. What is the difference between the number of adult dogs at the park on Monday and Tuesday?

23. **Higher Order Thinking** At 9:30 A.M., Sean started filling a swimming pool. At 11:30 A.M., he had filled 1,800 gallons. At what time will the pool be full?



Assessment Practice

24. Of the students taking a foreign language class, 8 students take Spanish for every 5 students who take French. This is represented in the diagram below.



Explain how you can use the diagram to find the number of students who are taking French if there are 72 students taking Spanish.

