

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Per: \_\_\_\_\_

### 3-1: Ratios

Objective: By the end of this assignment I will be able to:

1. Noah drew 25 hearts, 4 stars, and 9 circles. What is the ratio of stars to all shapes?

2:19

2. A pattern has 8 blue triangles to every 10 yellow triangles. What is the ratio of yellow triangles to blue triangles?

5:4

3. A jar contains 880 beans. Of them, 640 are lima beans and the rest are azuki beans. What is the ratio of lima beans to all the beans?

8:11

4. A herd of 44 horses has 5 white horses. The rest are black horses. What is the ratio of black horses to white horses?

39:5

5. A jar contains 48 marbles, of which 1 is blue, 14 are red, and the rest are green. What is the ratio of green marbles to all marbles?

11:16

6. A jar contains 18 marbles, of which 1 is blue, 7 are red, and the rest are green. What is the ratio of blue marbles to red marbles to green marbles?

1:7:10

7. A pattern has 4 blue triangles to every 32 yellow triangles. What is the ratio of yellow triangles to blue triangles?

8:1

8. Abigail drew 23 hearts and 21 circles. What is the ratio of circles to hearts?

21:23

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### 3-1: Ratios

9. A group of preschoolers has 20 boys and 23 girls. What is the ratio of boys to all children?

20:43

10. A herd of 46 horses has 26 white horses. The rest are black horses. What is the ratio of white to black horses?

13:10

11. A truck is carrying tomato juice, grape juice, and peach juice bottles in a ratio of 9:1:2. If there are 17 grape juice bottles, then how many juice bottles in total are there?

204 juice bottles

12. A truck is carrying cranberry juice, pear juice, and mango juice bottles in a ratio of 4:4:2. If there are 52 pear juice bottles, then how many mango juice bottles are there?

26 mango juice bottles

13. A kennel has 65 dogs in total, some are puppies, and the rest are adult dogs. The ratio of puppies to adult dogs in a kennel is 2:3. How many puppies are there?

26 puppies

14. Alex has nickels, dimes, and quarters in the ratio of 1:1:8. If 14 of Riley's coins are dimes, how many nickels and quarters does Alex have?

14 nickels, 112 quarters; 126 total

15. Jason has nickels, dimes, and quarters in the ratio of 1:7:1. If 140 of Jason's coins are dimes, how many nickels and quarters does Jason have?

20 nickels, 20 quarters, 40 nickels & quarters

16. Riley has 64 coins. Of the coins,  $\frac{4}{8}$  are nickels,  $\frac{3}{8}$  are dimes, and the rest are green. What is the ratio of Riley's nickels to dimes to quarters?

4:3:1