

### Unit 2 Math 6 Study Guide

1. The physical education teacher has 16 baseballs and 12 soccer balls. What is the ratio of soccer balls to baseballs?

2. What is the ratio of clouds to total shapes?



3. The Georgia Aquarium has 8 starfish and 15 snow crabs. What is the ratio of snow crabs to the total of animals in the tank?

4. If the ratio of boys to girls in the sixth-grade chorus is 2 to 3, which choice shows possible numbers of the boys and girls in the chorus?

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|----------------------|----------------------|
| A. 20 boys, 35 girls | B. 12 boys, 18 girls |
| C. 35 boys, 20 girls | D. 18 boys, 12 girls |

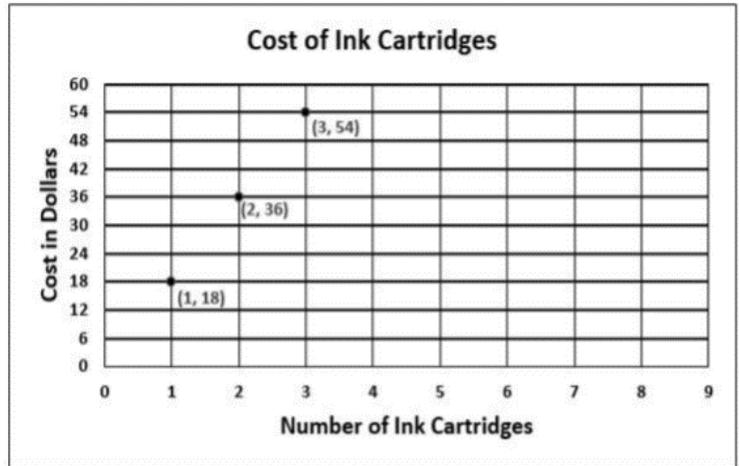
5. At last Saturday's ballgame, the concession stand sold 24 hot dogs, 52 hamburgers, and 150 soft drinks. What was the ratio of hot dogs and hamburgers sold to the number of soft drinks sold?

6. If Jamie can walk 3 miles in 2 hours, how many hours would it take for her to walk 24 miles?

7. At a car lot, 5 trucks are sold for every 8 cars sold. If 32 cars are sold, how many trucks should the car lot expect to sell?
8. If 1 inch = 2.54 centimeters, how many centimeters are in 8 inches?
9. Sergio finds that for every hour he lifts weights, he burns 400 calories. Today, he lifted weights for 5 hours. How many calories did Sergio burn today?
10. Corner Grocery charges \$4.80 for 12 sodas. Max's Market charges \$5.25 for 15 sodas. Which store has the best unit price per soda, and by how much?
- A. Corner Grocery is \$0.05 cheaper per soda than Max's Market.
  - B. Corner Grocery is \$0.15 cheaper per soda than Max's Market.
  - C. Max's Market is \$0.05 cheaper per soda than Corner Grocery.
  - D. Max's Market is \$0.15 cheaper per soda than Corner Grocery.

11. Look at the graph. Which statement is **TRUE** about the relationship on the graph?

- A. For every ink cartridge, the cost increases by \$3.00
- B. For every ink cartridge, the cost increases by \$18.00
- C. For every ink cartridge, the cost decreases by \$3.00
- D. For every ink cartridge, the cost decreases by \$3.00



12. A recipe for punch calls for one cup of sugar for every eight cups of water. Which ordered pair would **NOT** be on a graph that describes this situation?

- A. (1, 8)
- B. (3, 24)
- C. (4, 32)
- D. (5, 45)

13. The ratio of x to y is 4 : 5. Which table shows the ratio of x to y?

- A.
 

X	Y
8	10
12	15
16	20
- B.
 

X	Y
4	10
8	20
40	60
- C.
 

X	Y
14	49
16	56
30	45
- D.
 

X	Y
10	5
20	10
40	20

14. The average car on the highway can go 240 miles in 4 hours. At this rate, how long would it take the average car to drive 1,440 miles?

15. A recycling machine crushes 175 pounds of cans in 5 minutes. How many pounds of cans will the machine crush in 18 minutes?

16. If 1 inch = 2.54 centimeters, how many centimeters are in 3.5 inches?

17. If 1 mile = 5,280 feet, how many feet are in 15 miles?

18. Sari needs 15 pints of lemonade for a summer pool party.

Which choice is equivalent to 15 pints?

- A. 15 cups                      B. 30 cups  
C. 5 quarts                      D. 30 quarts

**Customary Units of Capacity**

1 Cup (c) = 8 Fluid Ounces (oz)

1 Pint (p) = 2 Cups

1 Quart (qt) = 2 Pints

1 Gallon (gal) = 4 Quarts

19. What is 15% of 40?

20. Twelve is 40% of what number?

21. Jose wanted to reserve a ticket to go on a field trip. He had to pay 10% of the total price. He paid \$60 to reserve his ticket. What was the total price of the ticket?

22. A carpet cleaning company will clean an apartment for \$71.00. Jim has a coupon for 30% off the total price. How much money will Jim save if he uses the coupon?