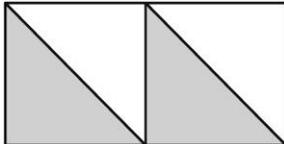


Review 4A : Ratios and Rates; Percents

1. Kelly ate 3 apples. This represents 50% of the bag of apples. How many apples were originally in the bag?

A 3 C 5
B 4 D 6

2. Approximately what percent of the rectangle below is shaded?



A 25% C 50%
B 33% D 67%

3. The ratio of blue marbles to white marbles in Simran's bag is equal to 1 to 2. If there are 20 blue marbles, how many white marbles are there?

A 20 C 40
B 30 D 50

4. Anthony cut a piece of metal that weighed 2,700 grams. Dionne cut a piece of metal that weighed 3,200 grams. How much heavier was Dionne's piece, in kilograms?

A 0.5 C 50
B 5 D 500

5. The ratio of green houses to white houses on Winthrop Street is equal to 2 to 3. There are 60 white houses on Winthrop Street. How many green houses are there?

A 20 C 40
B 30 D 60

6. What is 40% of 120?

A 32 C 48
B 40 D 60

7. The ratio of boys to girls in Mr. Baker's social studies class is 2 to 3. If there are 30 total students in the class, how many more girls are in the class than boys?

A 6 C 10
B 8 D 12

8. Kenton completed 30% of a 90-page reading assignment. How many pages did he read?

A 24 C 30
B 27 D 33

9. Nelly spends 25% of her free time surfing the Internet. If she spends approximately 1 hour per day surfing the Internet, how many hours of free time does she have each day?

A 0.25 C 2
B 1 D 4

10. Brent counted 10 red cards, 10 black cards, and 20 blue cards in a deck of cards. What is the ratio of red cards to other cards?

A 1 : 1 C 2 : 1
B 1 : 2 D 1 : 3

11. Winnie can walk 2 miles in 30 minutes. How many miles can she walk in 2 hours?

A 2 C 6
B 4 D 8

12. Cole has 12.4 meters of string. How many feet of string is this?

A 1.24 ft C 40.68
B 24.8 ft D 81.36

13. L'Shonda purchased a container of juice that contains 200 calories. The label says that 40% of the calories are from carbohydrates. How many calories are from carbohydrates?

14. Cymra purchased a container of peanuts that weighs 4 kilograms. Luz purchased a container of peanuts that weighs 4,100 grams. How many more grams of peanuts did Luz purchase?

15. **Favorite Sport**

Football	45%
Baseball	15%
Basketball	20%
Tennis	20%

Remy recorded the favorite sport of students at his school. He surveyed 500 students. How many students chose Baseball?

16. During the election for class president, 30% of the students voted for Lindsay, and 70% of the students voted for Sharif. 400 students voted in total. How many more students voted for Sharif than for Lindsay?

17. The ratio of golf balls to tennis balls in the coach's bag is 20 to 5. If there are 100 golf balls in the bag, how many tennis balls are in the bag?

18. Carlos bought 20 pounds of vegetables at the farmer's market. 60% of the vegetables were organically grown. How many pounds of vegetables were **not** organically grown?

Use the table for 19 and 20.

19. **Backpack Weight**

Student	Weight of Backpack
Amir	20,100 g
Betty	19.2 kg
Sandro	21,300 g
Lea	20,120 g
Maurizio	19.8 kg

Students in Ms. Victoria's class have backpacks of different weights, as shown in the table. Which student's backpack is the heaviest?

20. How many pounds does Betty's backpack weigh?

21. Lydia bought a package of pencils. There are 10 pink pencils and 5 blue pencils. What is the ratio of pink pencils to blue pencils?
