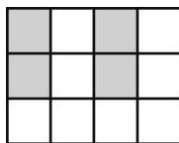# Review 4B : Ratios and Rates; Percents

1. Mitt ate 24 peanuts. This represents 75% of the bag of peanuts. How many peanuts were originally in the bag?

   A 24 	 C 48

   B 32 	 D 100

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

   A 25% 	 C 40%

   B 33% 	 D 67%

3. The ratio of pink marbles to white marbles in Samara's bag is equal to 1:5. What percent of the bag contains pink marbles?

   A $16\frac{2}{3}\%$ 	 C 25%

   B 20% 	 D $83\frac{1}{3}\%$

4. Alissa cut a piece of string that was 17 feet long. Darnell cut a piece of string that was 5 yards long. Alissa wanted to cut her string so that it was the same length as Darnell's. How many feet did she need to cut off?

   A 1 	 C 4

   B 2 	 D 5

5. Antonia and Carla have the same percentage of green marbles in their bags of marbles. Antonia has 4 green marbles and 16 total marbles. Carla has 10 green marbles. How many of Carla's marbles are **not** green?

   A 10 	 C 30

   B 20 	 D 40

6. The ratio of boys to girls in Mr. Castillo's class is 2 to 3. Which of the following **cannot** be the total number of students in Mr. Castillo's class?

   A 20 	 C 25

   B 24 	 D 30

7. Alexandra completed 40% of a 50-question assignment. How many questions did she complete?

   A 10 	 C 25

   B 20 	 D 30

8. Andrew's sandwich consists of a 20-gram piece of cheese, a 60-gram piece of turkey, and two 30-gram slices of bread. What is the total weight of Andrew's sandwich, in kilograms?

   A 0.11 kg 	 C 110 kg

   B 0.14 kg 	 D 140 kg

9. Minxia counted 40 green cars and 20 silver cars in the parking lot. If the number of green cars stays the same, how many more silver cars would need to be added so the ratio of green cars to silver cars is 1 to 3?

   A 30 	 C 100

   B 80 	 D 120

10. Rajani can ride her skateboard 2 miles in 10 minutes. How many miles can she ride her skateboard in 1.5 hours?

    A 9 mi 	 C 15 mi

    B 12 mi 	 D 18 mi

11. In another country, a road sign reads "80 kilometers to the next gas station". How far is that distance to the nearest mile?

    A 40 mi 	 C 62 mi

    B 50 mi 	 D 98 mi

12. Tyrese purchased a container of juice that contains 220 calories. The label says that 60% of the calories are from carbohydrates. How many calories are **not** from carbohydrates?

_____

13. Ali purchased a container of mandarin oranges that weighs 3 kilograms. Mia purchased a container of mandarin oranges that weighs 3,250 grams. How many more grams of mandarin oranges did Mia purchase?

_____

14. **Favorite Sport**

Football	35%
Baseball	25%
Basketball	20%
Tennis	20%

Kassie recorded the favorite sport of students at her school. She surveyed 800 students. How many more students chose Baseball than Basketball?

_____

15. During the election for class president, 40% of the students voted for Jennifer, and 60% of the students voted for Kevin. 300 students voted in total. How many more students voted for Kevin than for Jennifer?

_____

16. The ratio of white marbles to blue marbles in Jai's bag is 2 to 5. If there are more than 50 marbles in the bag, what is the **minimum** number of marbles that can be in the bag?

_____

17. Shilpa bought 30 T-shirts at a clothing store. 20% of the T-shirts were blue and $\frac{1}{2}$ of the T-shirts were black. How many of the T-shirts were neither black nor blue?

_____

Use the table for 18 and 19.

18. **Bagged Lunch Weight**

Student	Weight of Lunch
Amery	545 g
Blaine	6.1 kg
Scott	491 g
Rosalinda	621 g
Zelda	6.25 kg

Students in Mr. Conway's class have bagged lunches of different weights, as shown in the table. Which student's lunch is the heaviest?

_____

19. What is the weight of Blaine's lunch to the nearest pound?

_____