

Exercises - Proportions

1

On a map, 1 inch represents 5 miles. If a certain state is represented on a map by a rectangle 10 inches by 7.2 inches, what is the area of the state in square miles?

- A) 360 mi^2
- B) 720 mi^2
- C) $1,080 \text{ mi}^2$
- D) $1,800 \text{ mi}^2$

2

Together there are 754 students and teachers in the meeting. If the ratio of students to teachers is $27 : 2$, how many teachers are there?

- A) 46
- B) 52
- C) 58
- D) 64

3

Concrete is made by mixing cement, sand, and gravel in the ratio $5 : 9 : 13$. How much cement is needed to make 324 ft^3 of concrete?

- A) 54 ft^3
- B) 60 ft^3
- C) 84 ft^3
- D) 108 ft^3

4

If Andy drove 84 miles in 1 hour 45 minutes, how many miles can he drive in 5 hours?

5

A collection of quarters, dimes, and nickels is worth \$5.00. If the ratio of quarters to dimes to nickels is $2 : 4 : 7$, how many quarters are there?

6

If $\frac{5x}{3} = \frac{x+14}{2}$, what is the value of x ?

7

A trail mix contains raisin, peanut, and chocolate. The ratio of raisin to peanut is $2 : 3$ and the ratio of peanut to chocolate is $5 : 8$. What is the ratio of raisin to chocolate?