

## QUIZ: PERCENTS

Answer the questions below. Be sure to show work and justify your thinking.

1. A 12,000-gallon pool is being filled at a rate of 40 gallons per minute. At this rate, how many minutes will it take to fill this pool  $\frac{3}{4}$  full?

2. The scale on a map is 2 cm = 25 miles. Dave measured the distance to the next town at 5 cm. How many miles away is the next town?

3. Which set of numbers is equivalent to 75%?

A.  $0.75, \frac{3}{5}$

B.  $7.5, \frac{75}{100}$

C.  $\frac{3}{4}, 0.075$

D.  $\frac{15}{20}, 0.75$

4. What is 25% of 80?

5. What is 20% of 75?

### Answers

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

Answer the questions below. Be sure to show work and justify your thinking.

6. Three students wrote equations on their dry erase boards.

**NINA**

$$\frac{1}{4} = 20\%$$

**ZANDER**

$$\frac{7}{10} = 0.70\%$$

**GEORGE**

$$\frac{13}{20} = 65\%$$

Which of these students wrote an equation that is true?

A. Nina and George

B. Zander and George

C. Zander

D. George

7. On the beach boardwalk, there are 20 different places to get food. Twenty percent of them are ice cream shops. How many ice cream shops are on the boardwalk?

8. The student council hosted a bake sale. Of the 40 items brought to sell, 18 were brownies. What percent of the bake sale items were brownies?

A. 45%

B. 30%

C. 60%

D. 65%

9. Jack is learning to save, spend, and give his money away. He has determined to give away 10% of his summer job earnings. If he gives away \$256, how much did he earn this summer?

10. Joey has 8 pairs of socks in his drawer. Five of the pairs are white. What percent of Joey's socks are colored?