

## Percent Unit Assessment

Below are multiple choice percent problems that appeared on previous NY state exams. Solve the problems (don't just guess), then reflect on your understanding of the unit.

1. Kira studied data collected on the school basketball team for one season. She noticed that a player on the team had 13 successful free throws out of a total of 20 attempted free throws. To find the percentage of the total free throws attempted by this player that were successful, Kira set up the equivalent ratios below.

$$\frac{13}{20} = \frac{m}{n}$$

What are the values for  $m$  and  $n$  in Kira's equation?

A  $m = 65$   
 $n = 1$

C  $m = 93$   
 $n = 100$

B  $m = 100$   
 $n = 65$

D  $m = 65$   
 $n = 100$

2. A salesperson had \$240,000 in sales last year, which is 60% of the sales she had this year. Which equation could be used to determine  $x$ , the salesperson's total amount of sales, in dollars, for this year?

A  $\frac{240,000}{x} = \frac{60}{100}$

B  $\frac{240,000}{100} = \frac{x}{60}$

C  $\frac{60}{240,000} = \frac{x}{100}$

D  $\frac{60}{100} = \frac{x}{240,000}$

3. Kate has a coin collection. She keeps 7 of the coins in a box, which is only 5% of her entire collection. What is the total number of coins in Kate's coin collection?

A 12

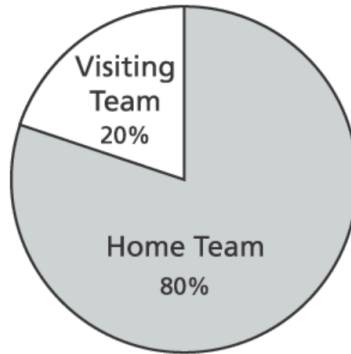
B 14

C 120

D 140

4. The diagram below shows the percentages of people attending a football game who were supporters of either the home team or the visiting team.

### SUPPORTERS AT FOOTBALL GAME



If the total number of people attending the game was 64,000, how many people were supporters of the home team?

- A 12,800
  - B 38,400
  - C 48,000
  - D 51,200
5. All the students in the sixth grade either purchased their lunch or brought their lunch from home on Monday.
- 24% of the students purchased their lunch.
  - 190 students brought their lunch from home.

How many students are in the sixth grade?

- A 76
- B 166
- C 214
- D 250

I feel confident about

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I am confused about

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