Name _____ Date _____

Percent Increase and Decrease Exit Ticket

Directions: Answer each question. Type number answers with digits, and use a decimal point when needed. When an answer is a percent, type the number without the % sign.

1. A phone plan cost $40 a month. The price went up by 15% of that $40. What is the new monthly price, in dollars?

_____ dollars

2. A swimmer's 100-meter time was 80 seconds. After a season of training, her time went down by 5% of those 80 seconds. What is her new time, in seconds?

_____ seconds

3. A basketball player averaged 16 points per game last season and 20 points per game this season. Find the percent increase, taken of last season's 16 points. Type the percent as a number, without the % sign.

_____ %

4. Mia's 5-kilometer race time dropped from 25 minutes to 22 minutes. Find the percent decrease, taken of her old time of 25 minutes. Type the percent as a number, without the % sign.

_____ %

5. A chess club has 120 members this year. That is 150% of last year's 80 members. By what percent did membership increase, taken of last year's 80 members?

A. 50% B. 150% C. 33 1/3% D. 40%

6. Each choice gives a starting number and an ending number. Which changes are an increase of 25%, taken of the starting number? Select the 3 that apply.

☐ A. From 50 to 40 ☐ B. From 30 to 55 ☐ C. From 75 to 100
☐ D. From 40 to 50 ☐ E. From 80 to 100 ☐ F. From 120 to 150

7. After a 20% increase, a gym's monthly fee is $36. The increase was 20% of the old fee. What was the old fee, in dollars?

_____ dollars

8. A youth soccer league had 500 players last year and has 800 players this year. Jamal found the percent increase, taken of last year's number. His work is shown.

1. $800 - 500 = 300$
2. $300 \div 800 = 0.375$
3. $0.375 = 37.5\%$
4. The number of players increased by 37.5%.

Which step has the first mistake?

A. The number of players increased by 37.5%.
B. There is no mistake.
C. $800 - 500 = 300$
D. $0.375 = 37.5\%$
E. $300 \div 800 = 0.375$