

# Algebra I

## 4.5 Warm-Up #3

### Decimals, Fractions and Percents

NAME: \_\_\_\_\_

DATE: \_\_\_\_\_ HOUR: \_\_\_\_\_

#### Read each question and circle the best answer.

1. Of the 240 students in Rashel's 11th grade class, 60 live in apartments. What percent of the students live in apartments?  
A 10%  
B 25%  
C 60%  
D 180%
2. Angie sold 60 of the 75 cookies she brought to the class bake sale. What percent of the cookies did she sell?  
F 60%  
G 75%  
H 80%  
I 90%
3. Mario went to the movies, where his ticket cost \$4.50. He also bought some candy for \$2.00, popcorn for \$2.50, and a jumbo soft drink for \$3.75. How much money did Mario spend?  
A \$13.75  
B \$12.75  
C \$12.25  
D \$10.75
4. Of every 100 biography books in the school library, 8% of them are about sports figures. What decimal is equivalent to this percent?  
F 1.8  
G 0.88  
H 0.8  
I 0.08
5. 38% written as a decimal is—  
A 0.038  
B 0.38  
C 3.8  
D 38.0
6. 36% of what number is 72?  
F 36  
G 72  
H 200  
I 300
7.  $\frac{27}{100}$  written as a percent is—  
A 0.27%  
B 2.7%  
C 27%  
D 270%

#### Solve each problem.

8. 54% of what number is 162? \_\_\_\_\_
9. What is  $\frac{3}{5}$  written as a percent? \_\_\_\_\_
10. What is 38% of 95? \_\_\_\_\_
11. Find 6% of 895. \_\_\_\_\_
12. Find 32% of 96. \_\_\_\_\_
13. Find 25% of 260. \_\_\_\_\_
14. Find 75% of 192. \_\_\_\_\_
15. Find 150% of 16. \_\_\_\_\_
16. Find 60% of 90. \_\_\_\_\_

**Read each question and circle the best answer.**

1. During a recent game, Gene scored  $\frac{1}{10}$  of the total points scored. What percent of the points did Gene score?  
A 10%  
B 25%  
C 50%  
D 90%
2. During the school day, the computer lab is being used 95% of the time. What part of the school day is the lab being used?  
F  $\frac{1}{2}$   
G  $\frac{2}{3}$   
H  $\frac{3}{4}$   
I  $\frac{19}{20}$
3. Arthur spends \$0.57 of every dollar he earns on his baseball card collection. What percent of his money does Arthur spend on baseball cards?  
A 57%  
B 50%  
C 5.7%  
D 0.57%
4. Three-fourths of the swim team is over the age of 16. What percent of the team is over 16?  
F 75%  
G 50%  
H 34%  
I 10%
5. Melissa answered 89 of 100 questions on the science test correctly. What percent of the questions did Melissa answer correctly?  
A 11%  
B 50%  
C 89%  
D 98%
6. Misha answered 15% of 100 questions on the science test incorrectly. What fraction represents the questions that Misha answered incorrectly?  
F  $\frac{17}{20}$   
G  $\frac{3}{4}$   
H  $\frac{3}{5}$   
I  $\frac{3}{20}$

**Solve each problem.**

7. A recent survey showed that  $\frac{1}{2}$  of the students surveyed would like school to begin after Labor Day. Show this fraction as a decimal. \_\_\_\_\_
8. Rashel's grandmother recently celebrated her 100th birthday. On her birthday cake, 87 of the candles were pink and the remainder were other colors. What percent of the candles were other colors? \_\_\_\_\_
9. Mrs. Lee received a \$250 bonus with her monthly paycheck. Her regular monthly check is \$2500. What percent of her regular monthly pay is her bonus? \_\_\_\_\_
10. Thirty students ordered pizza. Six of them like mushrooms on their pizza. What percent of the students like mushrooms on their pizza? \_\_\_\_\_
11. On the last test, Rachel answered 20 out of 25 questions correctly. What percent of problems did Rachel answer **incorrectly**? \_\_\_\_\_
12. Michael made 3 out of 15 free throws. What percent of the free throws did he **miss**? \_\_\_\_\_