

# Algebra I

## Review for Quiz #9

Solving Problems with Decimals, Fractions and Percents

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

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

### Part 1

Write each fraction as a decimal.

1.  $\frac{1}{4}$  \_\_\_\_\_ 2.  $\frac{3}{8}$  \_\_\_\_\_ 3.  $\frac{7}{200}$  \_\_\_\_\_ 4.  $1\frac{4}{5}$  \_\_\_\_\_

5. Complete the chart. \*Reduce all fractions.

FRACTION*	DECIMAL	PERCENT
$\frac{3}{8}$		
	.16	
		26%
$1\frac{1}{4}$		
	.03	
		12%

### Part 2

Write the following percents as decimals.

1. 15% \_\_\_\_\_ 2. 3.2% \_\_\_\_\_ 3. 0.7% \_\_\_\_\_ 4. 6% \_\_\_\_\_

Write the following decimals as percents.

5. 0.62 \_\_\_\_\_ 6. 0.041 \_\_\_\_\_ 7. 0.002 \_\_\_\_\_ 8. 5.00 \_\_\_\_\_

9. Find 45% of 90. \_\_\_\_\_ 10. What percent of 30 is 3? \_\_\_\_\_

11. Find 28% of 60. \_\_\_\_\_ 12. 35 is 35% of what number? \_\_\_\_\_

13. Find 125% of 65. \_\_\_\_\_ 14. What percent of 50 is 125? \_\_\_\_\_

15. 20% of 30 \_\_\_\_\_ 16. Find 120% of 70. \_\_\_\_\_

17. 3 is what percent of 50 \_\_\_\_\_ 18. 45 is what percent of 500? \_\_\_\_\_

19. Find 3% of 300. \_\_\_\_\_ 20. Find 12.5% of 72. \_\_\_\_\_

### Part 3

Write the following percents as decimals.

1. 32% \_\_\_\_\_ 2. 4.9% \_\_\_\_\_ 3. 27.3% \_\_\_\_\_ 4. 0.8% \_\_\_\_\_

Write the following decimals as percents.

5. 0.29 \_\_\_\_\_ 6. 0.037 \_\_\_\_\_ 7. 3.25 \_\_\_\_\_ 8. 0.005 \_\_\_\_\_

For 9-17, WRITE and SOLVE an EQUATION. Box your answers.

9. Find 42% of 60.                      10. 30% of what number is 27?                      11. 15 is 30% of what number?
12. 6 is 150% of what number?                      13. 22% of 150.                      14. What percent of 64 is 32?
15. 250 is what percent of 625?                      16. 36 is what percent of 90?                      17. 12 is 40% of what number?

Find each answer.

18. A sweater is marked down from an original price of \$45 to \$33.75.  
What percent of the original price has the sweater been marked down? \_\_\_\_\_
19. A teacher says that 20% of your grade will be based on your portfolio.  
If there are a total of 400 points possible, how many points can you  
earn for your portfolio? \_\_\_\_\_
20. The school newspaper reported that 32% of the student body  
pre-registered for classes. If the student body is 2000 students, how  
many of them pre-registered? \_\_\_\_\_