

## Palomar College Math Placement Test Study Guide Prealgebra

### Topic 6: Percents

1. Write as a percent:  $\frac{9}{40}$
2. Write as a fraction in simplest form: 68%
3. Write as a decimal: 0.04%
4. What is 12% percent of 80?
5. What percent of 28 is 35?
6. 18 is 3% of what number?
7. All of the following are equivalent to 75% of N except:  
a.  $.75N$     b.  $\frac{75}{100}N$     c.  $75N$     d.  $\frac{3}{4}N$
8. A baseball team played 160 games and won 45% of them. How many games did they win?
9. Nine men and 6 women are employed by a small business firm. What percent of the employees are women?
10. On a math test, Jordan answered 24 questions correctly. This number is exactly 75% of the total number of questions on the test. How many questions were on the math test?
11. A textbook that usually costs \$120 is discounted and is now on sale for \$105. What is the percent discount in the price?
12. The cost to attend a community college was \$24 per unit. This cost decreased by 25% last year, and then increased by 25% this year. What is the cost per unit to attend the community college this year?

13. In the Fall 2004 semester, 25% of Palomar College students enrolled in a math course. Of the remaining Palomar College students, 20% enrolled in the Spring 2005 semester. What percent of Palomar College students did not enroll in any math class during the 2004-05 academic year?

**Answers are on the next page.**

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#### Answers:

1. 22.5%
2.  $17/25$
3. 0.0004
4. 9.6
5. 125%
6. 600
7. (c)
8. The baseball team won 72 games.
9. 40% of the employees are women.
10. There were 32 questions on the test.
11. The percent discount on the textbook price is 12.5%
12. The cost per unit this year is \$22.50
13. 60% of Palomar College students did not enroll in any math class during the 2004-05 academic year.