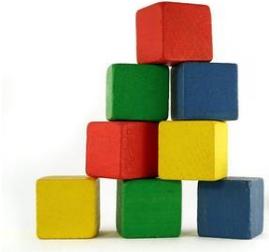


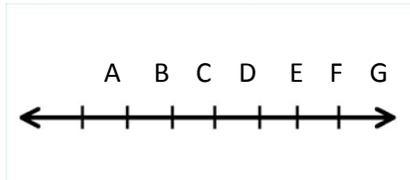
# STUDY GUIDE UNIT 7 ~ PERCENTS CCM6+7+ 2017-18

## Percent Basics and Modeling

1. What percent of the blocks is on the bottom of the stack?



2. Between which two points is 65% of the distance from point A to G?



3. The book three friends are reading has 770 pages. Amy has read 35%, Brad has read 265 pages, and Cameron has read  $\frac{1}{3}$  of the book. Who has read the most?

4. 70% of \_\_\_\_\_ is 49.



5. 40% of 80 is \_\_\_\_\_.



6. 30% of the team want cheese pizza. The rest of the team, 110 students, want pepperoni pizza. How many students are on the team?

7. 60% of the jellybeans in the bag are orange. If 33 are orange, how many jellybeans are in the bag?

**PERCENT APPLICATIONS-Round all \$ answers to the nearest cent.**

8. You and your family went out to eat. The bill totaled \$48.35. If you want to leave a 20% tip, what amount of money will you leave for the tip? \_\_\_\_\_  
What will be your total cost for going out to eat? \_\_\_\_\_
9. A store purchases a pair of shoes for \$23.75 and marks them up 80% to sell.  
a. What is the markup amount? \_\_\_\_\_  
b. What is the selling price? \_\_\_\_\_
10. Jody deposits \$950 into the bank at a simple interest rate of 2.5%. After 5 years, what will be Jody's balance? \_\_\_\_\_
11. A computer that originally sold for \$875.95 was marked down to \$460.50. What was the percent of the markdown (the discount percent)?
12. A coat costs \$85.95. It is on sale for 30% off. Tax is 7.5%. What will you pay for the coat?
13. I thought it would take me 45 minutes to do my homework but it actually took 65 minutes. What was my percent of error?
14. A SMARTboard sales associate sold five SMARTboards last week, each worth \$5,500. If the sales associate earns 5% commission, how much money did she earn?
15. A bag of cookies contains 75 cookies. You ate 60% of them. How many cookies are left?

16. Last year there were usually 25 students at Mathcounts club. This year there are usually 33. What is the percent of increase for attending the Mathcounts club from last year to this year?
17. Johnny paid \$195 for a television that was marked 70% off. What was the original price (without the discount) for that same television?
18. If the sales tax in the city of Los Angeles is 9.75%, what would be your total cost for an item priced at \$52.70?
19. A magazine advertises that a subscription price of \$29.99 (for 12 issues) represents a 70% savings from the newsstand price.
- What does this imply that the price of one issue must be? \_\_\_\_\_
  - If you found that the actual newsstand price per issue is \$8, would you consider the ad to be an error? Why or why not?
20. John bought a car for \$20,000. He sold it for a 30% profit. From the money raised from this sale, he bought another more expensive car, which unfortunately he had to sell for a 30% loss. What was his overall profit or loss?