

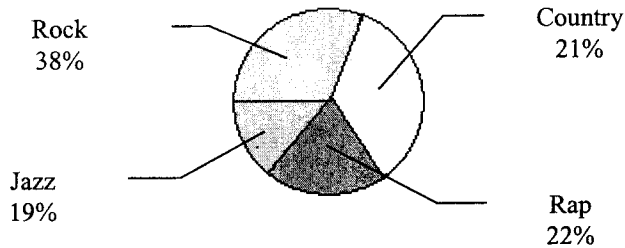
**Chapter 7 Test Form B**  
Tussy-Gustafson Prealgebra 3<sup>rd</sup> edition

Name: \_\_\_\_\_

Date: \_\_\_\_\_

*Find the answer for each problem.*

1. 45,200 students attend Lakemore College. Students at Lakemore College are divided into 4 major groups by music preference. How many students like jazz or rock?



1. \_\_\_\_\_

2. Change the percent to a decimal. 0.5%

2. \_\_\_\_\_

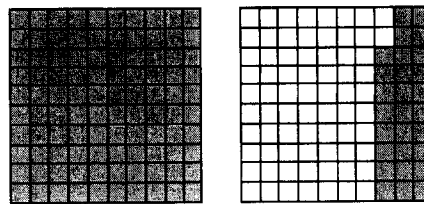
3. A student graduates from college and lands a very good job earning a starting salary of \$85,000 a year. The new employee quickly learns that he has to pay 31% of his wages for income tax. How much does she pay in income taxes for one year?

3. \_\_\_\_\_

4. Change the decimal to a percent. 8.07

4. \_\_\_\_\_

5. Each set of sixteen squares represents 100%. Express as a percent the amount of the figure that is shaded .



5. \_\_\_\_\_

6. 304% of what number is 218.88?

6. \_\_\_\_\_

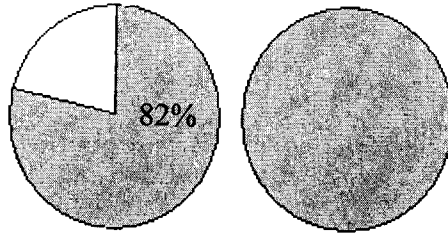
7. 24 is what percent of 60?

7. \_\_\_\_\_

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8. Write the fraction to a decimal.  $\frac{33}{20}$  8. \_\_\_\_\_
9. What number is 36% of 48? 9. \_\_\_\_\_
10. 17% of the students in an intermediate mathematics course earn a C. If there are 35 students in the course, how many students did not earned a C? Round the result to the nearest whole number. 10. \_\_\_\_\_
11. Change the percent to a decimal. 0.017% 11. \_\_\_\_\_
12. A store buys a suit for \$250.00 and sells it for \$275.00. What percent of increase is this? 12. \_\_\_\_\_
13. Find the amount of an 18% tip on a meal costing \$52.50. 13. \_\_\_\_\_

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14. A salesperson sold 12 timeshares in the month of June. The salesperson only sold 10 timeshares in July. Find the percent decrease from June to July? Round your answer to the nearest tenth of a percent. 14. \_\_\_\_\_
15. A professional basketball player has made 275 out 500 free throws during the regular season. What is his free throw percentage going into the playoffs? 15. \_\_\_\_\_
16. Find the simple interest on a loan of \$12,000 at 8% per year for 4 years. 16. \_\_\_\_\_
17. A home is purchased for \$200,000 at 6% annual interest compounded monthly for 30 years. Set up the formula for the total price paid for the home. 17. \_\_\_\_\_
18. Find the amount of money that will be in a savings account at the end of 10 years if \$8,000 is invested at the annual interest rate of 9% compounded monthly. Round to the nearest penny. 18. \_\_\_\_\_

19. Express the amount of the circles that are shaded using a percent. Each complete circle represents 100%. 19. \_\_\_\_\_



20. A physics professor invests \$ 12,500 in a savings plan that pays 6% per year. What will the account balance be at the end of the first year? 20. \_\_\_\_\_
21. Find the exact equivalent percent for the fraction.  $\frac{7}{3}$  21. \_\_\_\_\_
22. A company suffered a 26% drop in the value of each of its shares of stock. If one share of stock is worth \$34, what is the value of one share worth now? 22. \_\_\_\_\_
23. The sales tax in Nevada is 7%. If you purchase a racing bicycle for \$625.00, how much tax will you be charged for the bicycle? 23. \_\_\_\_\_
24.  $9\frac{1}{3}\%$  of what number is 42? 24. \_\_\_\_\_
25. A realtor earns a commission of 3% for each house that they list and sell. What would be the commission for a house that sells for \$172,000. 25. \_\_\_\_\_

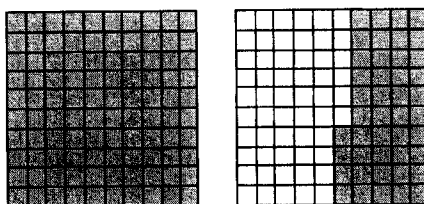
**Chapter 7 Test Form C**  
Tussy-Gustafson Prealgebra 3<sup>rd</sup> edition

Name: \_\_\_\_\_

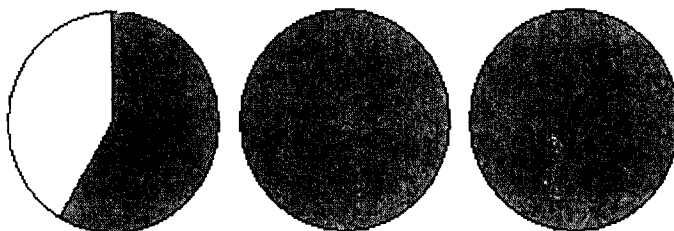
Date: \_\_\_\_\_

*Choose the correct answer for each problem.*

1. Each set of 100 squares represents 100%. Express as a percent the amount of the figure that is shaded.



- a. 144%                      b. 1.44%                      c. 14.4%                      d. 0.144%
2. Express the amount of the circles that are shaded using a decimal. Each complete circle represents 100%.



- a. 0.62                      b. 2.0062                      c. 2.062                      d. 2.62
3. Find the exact equivalent percent for the fraction.  $\frac{1}{6}$

- a. 16.6                      b.  $16\frac{2}{3}\%$                       c. 16.67%                      d. 17%

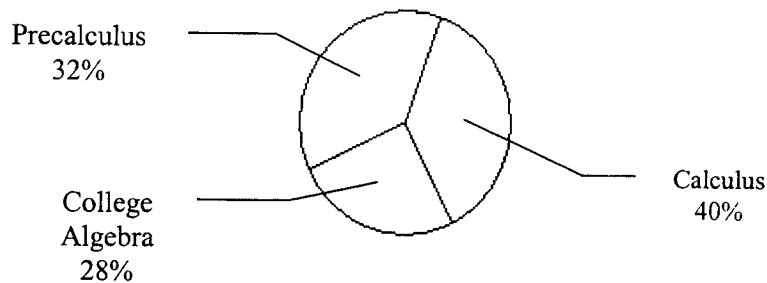
4. Change the fraction to a percent.  $\frac{61}{24}$

- a.  $2\frac{13}{24}\%$                       b.  $6\frac{1}{24}\%$                       c. 2.54%                      d.  $4\frac{1}{24}\%$

5. Suppose the sales tax in California is 8.25%. If you purchase a pair of dress shoes for \$92.00, how much is the total price of the pair of shoes including tax?
- a. \$167.90      b. \$7.39      c. \$99.59      d. \$75.90
6. What number is 48% of 96?
- a. 0.4608      b. 0.5      c. 46.08      d. 2
7. 3 is what percent of 60?
- a. 0.5      b. 0.05      c. 20      d. 2
8. Find the amount of a 22% tip on a meal costing \$111.50.
- a. \$50.68      b. \$2.45      c. \$5.07      d. \$24.53
9. 441% of what number is 1,565.55?
- a. 355      b. 3.55      c. 35.5      d. 6,904.08
10. 12% of the students in an intermediate mathematics course earn a B. If there are 53 students in the course, how many students earned a B? Round the result to the nearest whole number.
- a. 6      b. 12      c. 7      d. 47
11. Change the decimal to a percent. 143.402
- a. 14.3402%      b. 1.43402%      c. 14,340.2%      d. 1434.02%
12. A store buys a dress for \$45.45 and sells it for \$60. What percent of increase is this? Round the result to the nearest whole number.
- a. 24%      b. 32%      c. 3%      d. 2%

13. Find the amount of money that will be in a savings account at the end of 3 years if \$22,000 is invested at the annual interest rate of 4% compounded quarterly. Round to the nearest penny.
- a. \$22,893.29      b. \$24,790.15      c. \$35,222.71      d. \$24,063.75
14. A car dealership sold 23 cars in April. The same dealership only sold 18 cars in May. Find the percent decrease from April to May? Round your answer to the nearest tenth of a percent.
- a. 28%      b. 0.28%      c. 0.22%      d. 22%
15. A professional baseball player throws 245 strikeouts with 700 at bats during the regular season. What is his strikeout percentage?
- a. 3.5%      b. 245      c. 2.86      d. 35%
16. Find the simple interest on a loan of \$9,000 at 10% per year for 5 years.
- a. \$450      b. \$4,500      c. \$14,000      d. \$900
17. A home is purchased for \$100,000 at 6% annual interest compounded monthly for 30 years. Set up the formula for the total price paid for the home.
- a.  $100,000(0.06)(30)$       b.  $100,000\left(1 + \frac{0.06}{12}\right)^{30 \times 12}$
- c.  $100,000\left(1 + \frac{0.06}{12}\right)^{30}$       d.  $100,000\left(1 + \frac{0.6}{12}\right)^{30 \times 12}$
18. A student graduates from college and lands a very good job earning a starting salary of \$80,000 a year. The new employee quickly learns that she has to pay 31% of his wages for income tax. How much does he pay in income taxes for one year?
- a. \$24,800      b. \$2,741.94      c. \$274.19      d. \$2,480,000
19. A physics professor invests \$ 15,000 in a savings plan that pays 8% per year. What will the account balance be at the end of the first year?
- a. \$1,200      b. \$1,620,000      c. \$12,000      d. \$16,200

20. 12,200 students attend Lakemore College. Mathematics students can take one of three courses. How many students take either calculus or precalculus?



- a. 8,784 students    b. 7,320 students    c. 3,416 students    d. 8,296 students
21. Change the percent to a decimal. 0.7%
- a. 0.7                      b. 0.007                      c. 7                      d. 0.07
22. A company's stock surged with a 45% increase for each of its shares of stock. If one share of stock was worth \$34, what is the current value of one share of stock?
- a. \$18.70                      b. \$15.30                      c. \$49.30                      d. \$52.70
23.  $10\frac{1}{2}\%$  of what number is 210
- a. 20                      b. 2,000                      c. 0.05                      d. 0.5
24. Change the percent to a decimal. 3.608%
- a. 0.03608                      b. 0.3608                      c. 3.608                      d. 36.08
25. A realtor earns a commission of 6% for each house sold. What would be the commission for a house that sells for \$96,000.
- a. \$57,600                      b. \$576,000                      c. \$5,760                      d. \$1,600,000