

NAME \_\_\_\_\_ DATE \_\_\_\_\_

**UNIT 10 REVIEW SHEET (Percents/scale drawings/conversions)**

**Solve for N. If necessary, round to the nearest tenth when necessary.**

1)  $180 = N\% \cdot 200$       2)  $N = 30\% \cdot 150$       3)  $15 = 75\% \cdot N$       4)  $N\% = \frac{15}{24}$

5) Write each as a simplified ratio:

- a) 38%      b) 104%      c) 3%

6) Write each as decimal:

- a) 24.5%      b) 255%      c) 0.05%

**Solve each question and round all answers to the nearest whole number when necessary.**

- 7) 45 is what percent of 80?      8) 12% of what number is 8?      9) What is 130% of 60?

**Answer each percent word problem below using the percent equation.**

10) John threw 20 footballs at a target and made 15% of the shots. How many did he make?

11) A 14-gram serving of mayonnaise contains 11 grams of fat. What percent of the mayonnaise, to the *nearest tenth of a percent*, is fat?

12) While grocery shopping, you purchase boxes of cereal for \$12.76. The entire grocery bill came to a total of \$51.04. What percent of your bill did you spend on cereal?

13) Randi answered 63 questions correctly on a test made up of 90 questions.

a. What percent did she answer correctly?

b. What percent did she answer *incorrectly*?

14) On your math test, you scored an 85%. You got 34 problems correct. How many problems were on the test?

15) 55% of the people on a survey said they prefer football over baseball. If 110 people prefer football, how many people were surveyed?

16) Ninety percent of the ninth grade students at Schenectady High School take algebra. If 180 ninth grade students take algebra, how many ninth grade students do ***not*** take algebra?

17) a. Shanice got 6 questions wrong on a test that consisted of 80 questions. To the nearest percent, what percent of the questions did she solve correctly?

b. What percent did she answer *incorrectly*?

18) A class is limited to 25 total students. Eighteen are already signed up. What percent of the class is **not** filled?

19) A person misses 5 questions on a 72 question test. What is the grade on the test?

20) An owner of a small store knows that in the last week 54 customers paid with cash, 63 paid with a debit card, and 153 paid with a credit card. What percentage of the customers paid with cash?