Name _____

Period _____

Unit 2 Percent Review

Mentally calculate:

1. 50% of 44 = 22
2. 50% of 120 = 60
3. 10% of $9 = $.90
4. 10% of 700 = 70
5. 20% of $9 = .90 + .90 = $1.80
6. 20% of 700 = 70 + 70 = 140

Convert the following:

7. 15/25 = 60% %
8. 8% = .08 decimal
9. 40.5% = .405 decimal
10. 42/64 = ~~70%~~ .66% % rounded

Use the calculator to solve: 0.12 (50)

11. 12% of 50 is what? 6
12. 18 is what percent of 45? 40% $\frac{18}{45}$
13. 45 is 30% of what? 150

$\frac{45}{x} = \frac{30}{100}$

14. 14 out of 74 is what percent? 19%

$\frac{14}{74} = \frac{x}{100}$

Percent OF:

15. The meal cost $84.10. You gave a 15% tip. How much was the tip you gave? Round to the nearest penny.

Tip = $12.62

16. Your cell phone originally cost $110. You can get in on sale for 25% off. Add a 7% tax. Find the final price.

110.00 phone costs

27.50 25% discount

82.50 subtotal

5.78 7% tax

$88.28 final price

17. Of the 28 students in class, 75% will be attending the end-of-the-school-year party at The Pavilion. How many students will be attending the party?

$\frac{x = 21}{28} = \frac{75}{100}$ 21 will be attending

18. There were a total of 30 problems on the test. You scored an 80%. How many problems were correct?

$\frac{x = 24}{30} = \frac{80}{100}$ 24 problems correct

Other Percent Problems:

19. You saved $50 on a pair of soccer cleats. That was a 20% savings. How much did the cleats originally cost?

Saved $\frac{50}{x = 250}$ $\frac{20}{100}$ $x = \$250$

Original

20. Louie attempted 58 goals, but he made 23. Stuey attempted 84 goals but only made 32. Who had a better scoring percentage for the team?

Louie: made $\frac{23}{58} = .40$ 40%.

attempts

Stuey: $\frac{32}{84} = .38$ 38%.

Louie had a higher percentage

21. In all my classes, 4 students ran in the *Got2Run* race. They represented 5% of all my students. How many students do I have?

ran $\frac{4}{x = 80} = \frac{5}{100}$ 80 total students

total

22. Last year, I counted and tagged 36 chipmunks living in my neighborhood. Since the coyotes arrived, our chipmunk population decreased. This year, I counted only 16. What percent did the population of chipmunks decrease?

$36 - 16 = 20$

$\frac{\text{difference (change)}}{\text{original total}}$ $\frac{20}{36} = .555$

56% decrease

23. When my baby niece came home from the hospital, she weighed 96 ounce. In one month, she grew to weigh 112 ounces. What percent of growth did she make?

$112 - 96 = 16$

$\frac{\text{difference}}{\text{original total}}$ $\frac{16}{96} = .166$

17% increase