Name _____ Algebra 1

Chapter 3 Practice Test

Rearrange each equation to solve for x.

1. $d = mx + 4$
2. $t = \frac{x-b}{k}$

Solve the proportions.

3. $\frac{4}{15} = \frac{x}{90}$
4. $\frac{x}{8} = \frac{x+2}{10}$

Solve.

5. 12% of 125 is what number?
6. What percent of 80 is 16?
7. 30% of what number is 18?

Solve the word problems.

8. Keith drives 212 miles in 4 hours. If he continues to drive at the same rate, how far will he have traveled in 7 hours?
9. The ice cream vendor sells a ratio of 8 vanilla cones to 3 chocolate cones.
   a. If he sells 12 chocolate cones, how many vanilla cones did he sell?
   b. If he sells 66 cones all together, how many of them were chocolate?
10. Becca bought 3 out of 20 horses at an auction. What percent of the horses did she buy?
11. 24% of Abel's pay check went into savings. If he saved $117.00, what was his total pay check?
12. The price of eggs was $4.28 and it increased 12%. What was the percent was the new price of the eggs?
13. Jefferson deposited $6000 in an account that earns 4.5% annually. How much money will he have in the account after 8 years?

14. Franklin has $3024 in his account after 12 years. The account earned 6% interest each year. How much was the principle Franklin originally deposited in the account?

15. Raquel bought shoes for $27 and marked them up 40% to re-sell them. What is her selling price for the shoes?

16. Bus A leaves Georgetown and travels at 50 mph. It drives to Jonesville which is 385 miles away. How long did the bus trip take?

17. Robert drove 476 miles in 8.5 hours. What was his average rate of speed?

Percent x Total = Part

Interest = Principle x Interest Rate x Years

Distance = Rate x Time