1. (a) 400 times what is 1087.2?
   
   (b) Is it possible to multiply and get an answer smaller than the first number? What must be true about the second number?
   
   (c) Dividing by _____ has the same result as multiplying by 17.
   
   (d) What number times itself equals 6?
   
   (e) If the product of two numbers is 0, what must be true about the numbers?

2. In each statement below, circle the value that makes the statement true.
   
   (a) 0.7% of 3000 is (0.21, 2.1, 21, 210, 2100, 21000)
   
   (b) 32 is (0.125%, 8%, 12.5%, 125%, 800%, 8000%) of 4.
   
   (c) Multiplying an amount by 1.9 has the same effect as increasing the amount by (0.9%, 1.9%, 9%, 90%, 109%, 190%).

3. (a) The circumference of a circle is equal to _____ times its diameter.
   
   (b) The diameter of a circle is equal to _____ times its radius.
   
   (c) The circumference of a circle is equal to _____ times its radius.

4. The value of Cristina's car in 1997 was $15,625.
   The value of Cristina's car in 2007 was $5,000.
   What was the percent change?

5. Calculate the slope of the line passing through (5, 8) and (17, -1).

For problems #6 through #14,
   
   (a) Classify each as linear, quadratic, or neither; and as equation or inequality.
   
   (b) Give exact answers.
   
   (c) For irrational numbers, also give approximations to the nearest thousandth.

6. Solve: \( z(z+10) = 24 \)

7. Solve: \( 3x + 4 = 25 \)

8. Solve: \( w^2 + 5w > 24 \)

9. Solve: \( 52.7v + 0.75(256 - 28(17 - v)) = 29.1v + 254.24 \)

10. Solve: \( u^2 = 10u \)

11. Solve: \( -5t + 17 < 32 \)

12. Solve: \( s^2 + 24 = 10s \)

13. Solve: \( 1 + r > r^2 \)

14. Solve: \( (q - 7)^2 = 11 \)