decimal/percent practice test

1. Write each number in words:
   (a)   0.301

   (b)   300.001

2. Write each decimal as a fraction, *reduced to lowest terms*:
   (a)   0.37

   (b)   0.048

3. Write each fraction as a decimal:
   (a) $\dfrac{9}{10}$

   (b) $\dfrac{63}{1000}$

4. Fill in each blank with "<", ">", or "=":
   (a)   0.002 ___ 0.2

   (b)   8.365 ___ 8.371

5. (a)   Round to the nearest *tenth*:   2.547

   (b)   Round to the nearest *hundredth*:   365.008

6. Add: 480.3125 + 6.47

7. Subtract: 57 − 3.29

8. Multiply: (0.21)(0.007)

9. Divide: 803.203 / 2.003

10. Write as a decimal: $\dfrac{7}{11}$

11. Write as a decimal: $3\dfrac{17}{25}$

12. Evaluate:
    (a) (8.5)(100) =
    (b) 8.5 / 100 =
    (C) 8.5 / 10 =
    (d) 8.5 / 1000 =

13. Write each percent as a decimal:

    (a)   7%
    (b)   37.2%
    (C)   0.7%
    (d)   3720%

14. Write each decimal as a percent:

    (a)   0.9
    (b)   0.017
    (C)   90.
    (d)   0.0048

15. Complete this table of equivalents:

fraction	decimal	percent
	0.006	
		28%
$\dfrac{3}{8}$		
	0.8	
$\dfrac{17}{4}$		

16. Evaluate:
    (a) (547)(100) =
    (b) 547 / 100 =
    (C) 547 / 10 =
    (d) 547 / 1000 =

17. What is 7% of 30,000?

18. What is 300% of 2?

19. 0.4% of 150 is what?

20. 4800 is what percent of 30,000?

21. 35 is what percent of 7000?

22. What percent of 2 is 0.75?

23. Choose the best estimate:

    2% of 31,000 is *closest to*

    (a) 6   (b) 60   (C) 600   (d) 6,000   (e) 60,000

24. Choose the best estimate:

    150 is *closest to* what percent of 4900?

    (a) 0.3%   (b) 3%   (C) 30%   (d) 300%   (e) 3000%

geometry quiz

1. The <u>height</u> of a triangle is _____ to the <u>base</u>.

2. The *area* inside a <u>parallelogram</u> is (half of / equal to / twice)
   the area inside a <u>rectangle</u> with the same base and height.

3. The *area* inside an acute <u>triangle</u> is (half of / equal to / twice)
   the area inside a rectangle with the same base and height.

4. The <u>radius</u> of a circle is (half of / equal to / twice) the <u>diameter</u>.

5. The diameter of a circle is (half of / equal to / twice) the radius.

6. <u>Circumference</u> is just a specific word for the _____ of a circle.

7. The circumference of a circle is about (half / double / triple / quadruple) the diameter.

8. Calculate the <u>diameter</u>, <u>radius</u>, <u>circumference</u>, and <u>area</u> of a 16-inch pizza.

9. A 5-foot-tall woman casts a 2-foot-long shadow.
   At the same time and place, a flagpole casts an 11-foot-long shadow.
   How tall is the flagpole?

10. One of the angles in a triangle measures 40 degrees.
    Another angle measures 75 degrees.
    What is the measure of the third angle?

11. Calculate the area inside a triangle with a 35-foot base and a height of 300 inches.

12. Calculate the <u>volume</u> inside a <u>cone</u> with a 10-inch (diameter) base and 21 inches tall.
    You may use the formula $V = \dfrac{\pi r^2 h}{3}$.