Quiz 4 on Exponents, Roots, Algebra, and Geometry

Solve the following:

1) $16^2 =$	2) $.5^2 =$	3) $\sqrt{.36} =$
4) $\sqrt{.01} =$	5) If x = 36, then $\sqrt{x} =$	6) $5^3 =$

7) Which expression does not equal 6?

A) $\frac{6}{1}$ B) $\sqrt{36}$ C) 36^2 D) $\frac{18}{3}$ Answer _____

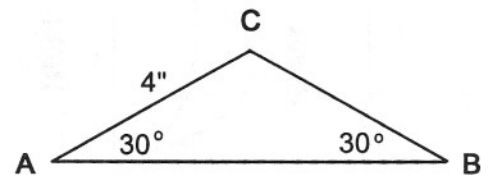| 8) Evaluate for a = 4 and b = 1. $3a - 2b$	Solve the following for x.	
	9) x - 4 = 16	10) $\frac{x}{3} = 5$
11) 3x = 27	12) 3x - 4 = 17	13) 10x - 3x = 28
14) 6x + 6 = 2x + 18	15) 2(x + 3) = 36	16) Write an equation for 4 times a number decreased by 3 equals 27.

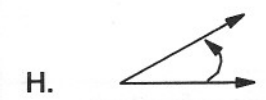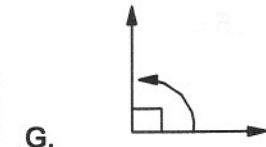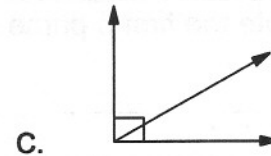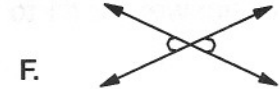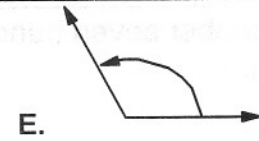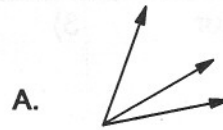17A) $\angle ACB$ measures _____ degrees.

17B) BC measures _____ inches.
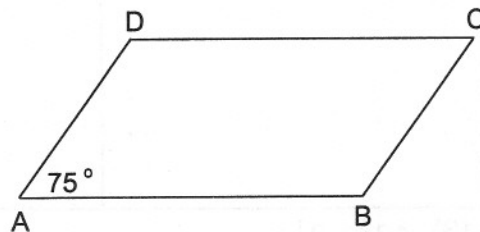
17C) $\triangle ABC$ is a (an) _____ triangle.

Place the letter of the angle's description next to its name.

18) _____ right

19) _____ obtuse

20) _____ acute

21) _____ straight

22) _____ supplementary

23) _____ complementary

24) _____ vertical angle
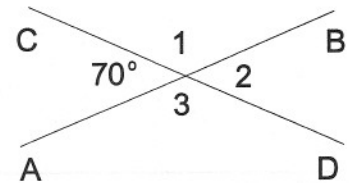
25) _____ adjacent angles

A.

B.

C.

D.

E.

F.

G.

H.

26) ABCD is a parallelogram. Find the number of degrees in:

A) ∠ABC _____

B) ∠ADC _____

C) ∠BCD _____

75°

A   B   C   D

27) AB and CD are intersecting lines. Find the number of degrees in:

A) ∠1 _____

B) ∠2 _____

C) ∠3 _____

C   1   B
   70°   2
         3
A   D

28) △ABC ~ △DEF

F
C   x
4"   5"
A   3"   B   D   9"   E
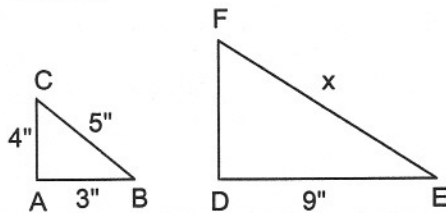
A) AC corresponds to side _____ . These sides

are _____ (equal or proportional).

B) ∠C corresponds to ∠ _____. These angles

are _____ (equal or proportional).

C) Find the length of side EF.

29)

A   D
5"   5"
C   12"   B   E   12"   F
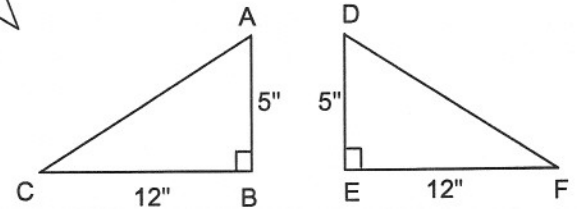
A) ∠B and ∠E measure _____ degrees.

B) △ABC _____ △DEF (≅ or ~)

C) Why? _____

See page 226 for the complete solutions to these quiz problems.

89