Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Equilateral Triangle 30º, 60º, 90º Triangle Ratio**

****

**The hypotenuse is always \_\_\_\_\_\_\_\_\_\_\_\_**

**as large as the smallest leg.**

1. 

7

a

b

60º

30º

1. 

6

a

b

60º

30º

1. a

   60º

   30º

   

   b

   
2. 

   a

   b

   60º

   30º

   
3. 

b

20

60º

30º

a

1. 

30º

60º

a



b

60°

30°

a

b



a

b

1. 2. 3.

a

b

a = \_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_ a = \_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_ a = \_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_

60°



30°

a

b

22

60°

a

b

30°

60°



30°

a

b

4. 5. 6.

a = \_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_ a = \_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_ a = \_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_

60°

a

30°

5

b

30°

60°

13

a

b



a

7. 8. 9.

b

a = \_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_ a = \_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_ a = \_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_

60°

30°



a

b

60°

30°

a

b



30°

60°

b

a



10. 11. 12.

a = \_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_ a = \_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_ a = \_\_\_\_\_\_\_ b = \_\_\_\_\_\_\_

13) A parallelogram has sides that are 10 cm. and 20 cm. long. The measure of the

acute angles of the parallelogram is 30°. What is the area of the parallelogram?

14) A triangle has the following characteristics: a 90º angle and side lengths measuring cm and cm. Find the length of the hypotenuse.

A

B

D

60º

6

9

15) Find the perimeter of trapezoid ABCD.

16) The shorter leg of a 30°-60°-90° triangle is 7.4 meters long. Find the perimeter.

17) Find the altitude of an equilateral triangle, if each side of the triangle has a length of 14 meters.