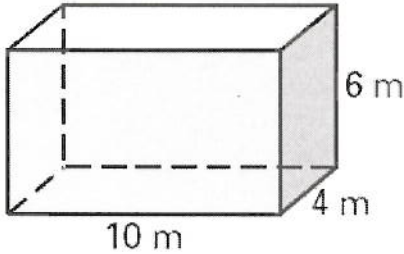


Tour de Geometry

Stage 2 Semester 2

Team Name: Key www

1. Find the surface area and volume of the solid.



$$2B + Ph$$

$$2 \cdot 40 + 28 \cdot 6$$

$$V = Bh$$

$$V = 40 \cdot 6$$

$$SA = \underline{248 \text{ m}^2}$$

$$V = \underline{240 \text{ m}^3}$$

Tell what type of triangle, if any, the following side lengths would create. *Sec. 7.2*

2. 10, 16, 20

$$20^2 \stackrel{?}{=} 10^2 + 16^2$$

$$400 = 100 + 256$$

$$400 > 356$$

3. 4, 5, 12

$$4 + 5 \not> 12$$

4. 7, 24, 25

$$25^2 \stackrel{?}{=} 7^2 + 24^2$$

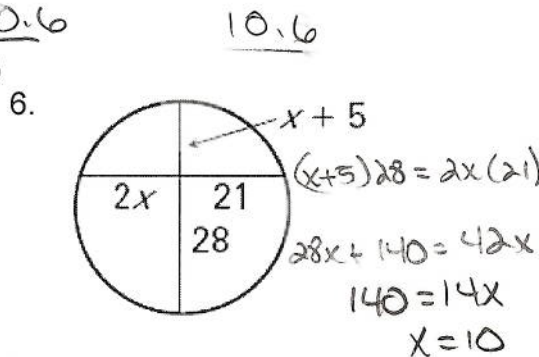
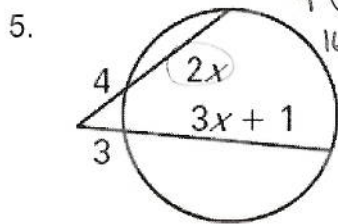
$$625 =$$

2. obtuse

3. ~~obtuse~~ NO

4. right

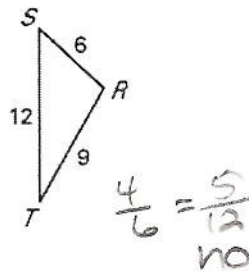
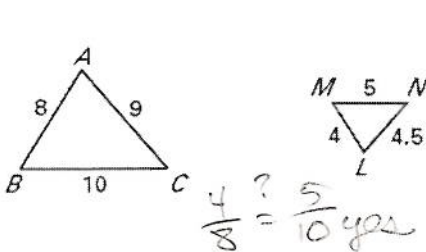
Find the value of x in the diagrams. 10.6



5. x = 4

6. x = 10

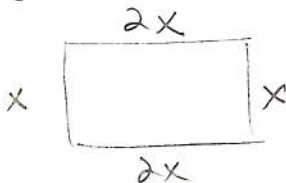
7. Determine what triangles, if any, are similar, then write a similarity statement.



$\triangle ABC \sim \triangle LMN$
or $\triangle BAC \sim \triangle MLN$
etc.

2nd pair not similar

8. The perimeter of a rectangle is 24 inches. The ratio of the length to the width is 2:1. Find the length and width.



$$6x = 24$$

$$x = 4$$

width = 4 in.
length = 8 in.