



NAME _____ DATE _____

MEASUREMENTS OF DIFFERENT OBJECTS

Solve using tape diagrams. Use a symbol for the unknown.

- 1) The total length of all three sides of a triangle is 96 feet. The triangle has two sides that are of same length. One of the equal sides measures 40 feet. What is the length of the side that is not equal?

Solution:

Total length of all the three sides of a triangle = ___ inches.

One of the equal sides = ___ inches.

$$\square + 40 + 40 = 96.$$

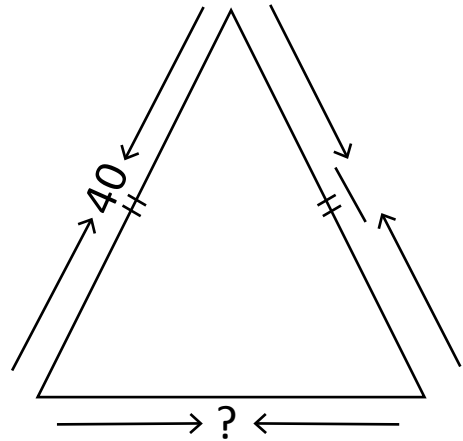
$$\square + __ = 96.$$

Tape diagram:

80	+ 10		+ 6	

$$\square = __ + __ = 16.$$

Length of the side that is not equal = \square = ___ inches.



- 2) The length of one side of a square is 4 yards. What is the combined length of all four sides of the squares?

Solution:

All four sides are equal in a square.

The length of one side of a square is ___ yards.

Combined length of all four sides (\square)
 $= 4 + 4 + __ + __ = __ \text{ yards.}$

Tape diagram:

4	+ 4		+ 4		+ 4	

