



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 100 feet. The two sides of triangle are the same length. One of the equal sides measures 30 feet. What is the length of the side that is not equal?

Solution: Total length of all the three sides of a triangle = _____ inches.

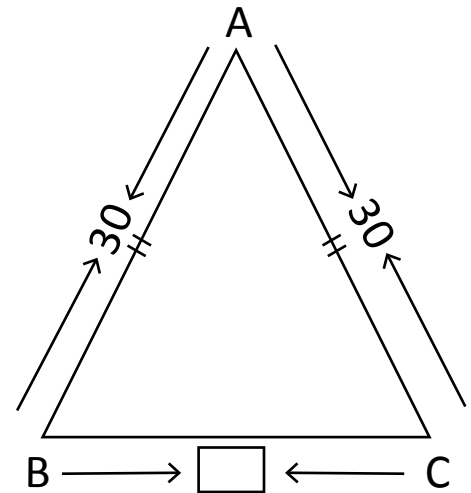
One of the equal sides = _____ feet.

$$\square + 30 + 30 = 100.$$

$$\square + ___ = 100.$$

By arrow way:

$$60 \xrightarrow{+10} ___ \xrightarrow{+10} ___ \xrightarrow{+10} ___ \xrightarrow{+10} ___$$



Length of the side that is not equal = $\square = ___ + ___ + ___ + ___ = ___ \text{ feet.}$

- 2) The length of one side of a square is 3 yards. What is the combined length of all four sides of the square?

Solution:

All sides are equal in a square.

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

All the four sides of a square = $___ + ___ + ___ + ___ = ___ \text{ yards.}$

By using tape diagram:

3	+ 3		+ 3		+ 3	

