NAME_____DATE_____PER._____

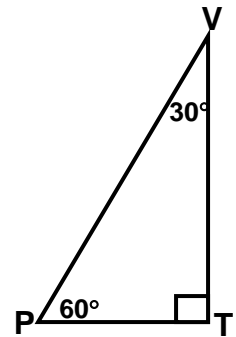## 30°-60°-90° Triangles

The length of one side of ΔPTV is given. Use the relationship between the sides of a 30°-60°-90° triangle to find the lengths of the other two sides.

1. VT = _____   PT = 4

    PV = _____

2. PT = _____   VT = 2

    PV = _____

3. PT = _____   PV = 3

    VT = _____

4. PT = _____   VT = $\sqrt{3}$

    PV = _____

5. PT = _____

    VT = _____

PV = $2\sqrt{3}$

6. VT = _____

    PV = _____

PT = $\sqrt{3}$

7. PT = _____

    VT = _____
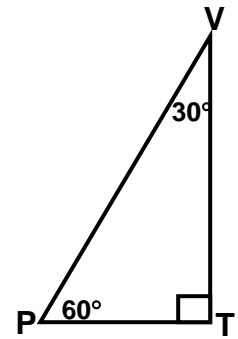
PV = 37

Find the indicated length for each of the following.

_____8.	The length of one side of an equilateral triangle is $6\sqrt{3}$ meters. Find the length of one altitude of the triangle.
_____9.	The length of an altitude of an equilateral triangle is 12 feet. Find the length of a side of the triangle.
_____10.	The perimeter of an equilateral triangle is 39 centimeters. Find the length of the altitude of the triangle.