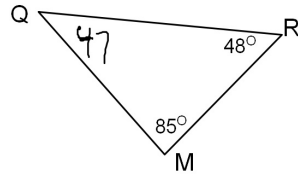


1. List the sides in order from shortest to longest.

$\overline{RM}, \overline{QM}, \overline{QR}$

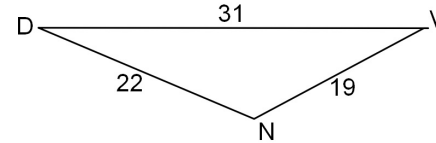


2. In  $\triangle CGW$   $\angle C = 104^\circ$  and  $\angle W = 51^\circ$ . List the sides in order from longest to shortest.

$\overline{GW}, \overline{GC}, \overline{CW}$

$\angle G = 25^\circ$

3. List the angles in order from largest to smallest.



$\angle N, \angle V, \angle D$

4. In  $\triangle STP$ ,  $PT=18$  and  $ST=25$ . The perimeter of  $\triangle STP$  is 52 units. List the angles in order from smallest to largest.

$SP=9$

$\angle T, \angle S, \angle P$

Solve each for x.

5.  $\frac{48}{x} = \frac{108}{55}$

$$\frac{108x}{108} = \frac{2640}{108}$$

$$x = 24.4$$

6.  $\frac{x+3}{9} = \frac{2x-7}{20}$

$$20x + 60 = 18x - 63$$

$$-18x \quad -18x$$

$$2x + 60 = -63$$

$$-60 \quad -60$$

$$2x = -123$$

$$x = -61.5$$

7. Solve for both x and y.

This is called an extended proportion

$$\frac{6}{20} = \frac{2.4}{8} = \frac{57}{y}$$

$$6 \cdot 8 = 20 \cdot x$$

$$x = 2.4$$

using the 1st & 3rd ratio  $\frac{6}{20} = \frac{57}{y}$

or using 2nd & 3rd ratio  $\frac{2.4}{8} = \frac{57}{y}$

$$y = 190$$