1. Pentagon ABCDE is similar to Pentagon RYMNT. Complete the following.

$\angle C \cong \angle$ _____

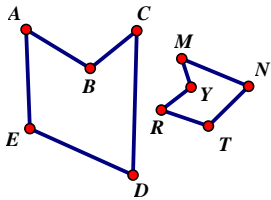$\dfrac{AB}{RY} = \dfrac{ED}{\boxed{}}$ _____

$\dfrac{MN}{RT} = \dfrac{CD}{\boxed{}}$ _____

$\angle T \cong \angle$ _____

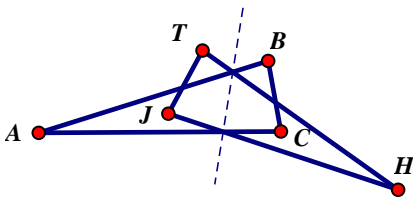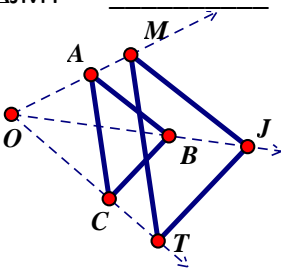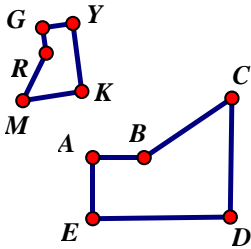$\dfrac{NT}{DE} = \dfrac{RT}{\boxed{}}$ _____
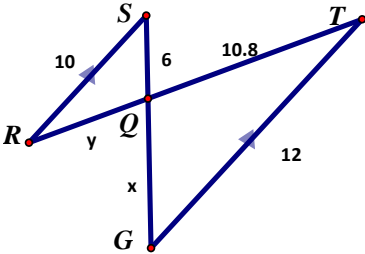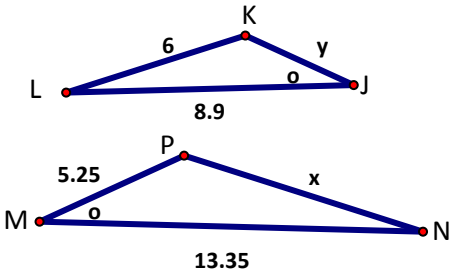
$\dfrac{AB}{BC} = \dfrac{RY}{\boxed{}}$ _____

2. The two figures in each question are similar. Create the similarity statement from the diagram.

a) Pentagon GYKMR ~ _____

b) △JMT ~ _____

c) △BAC ~ _____

3. Solve for the missing information, given that the two triangles in each question are SIMILAR.

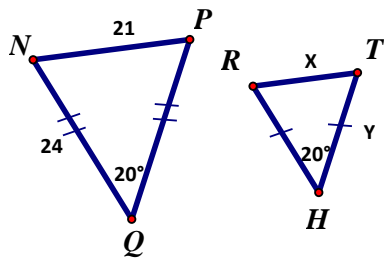a) Similarity Statement: _____

b) Similarity Statement: _____

x = _____ y = _____

x = _____ y = _____
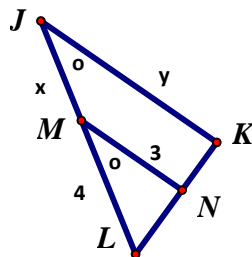
4. Solve for the missing information, given that the two triangles in each question are SIMILAR.

a) ΔQNP : ΔHRT is 2:1

N — 21 — P
R — x — T
24
20°
Q
20°
Y
H

b) ΔLMN : ΔLJK is 5:6

J
x
o
y
M
o 3
K
4
N
L

x = _____ y = _____   x = _____ y = _____

5. If the three sides of a triangle are in ratio of 1:4:2 and the perimeter of the triangle is 10.5 cm. What is the length of the longest side?