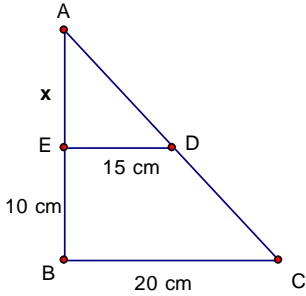# Geometry Chapter 7 Practice Test 2

Name _____   (Round Answers to the nearest tenth.)

Figure 1

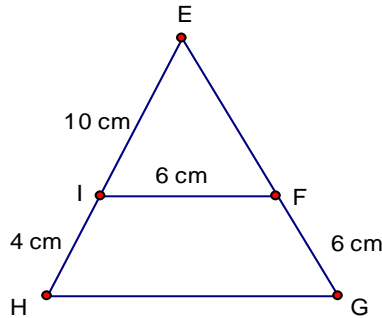

Figure 2
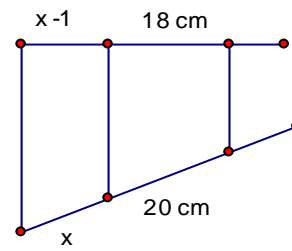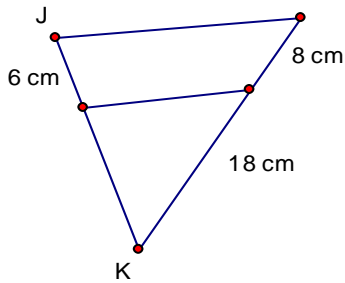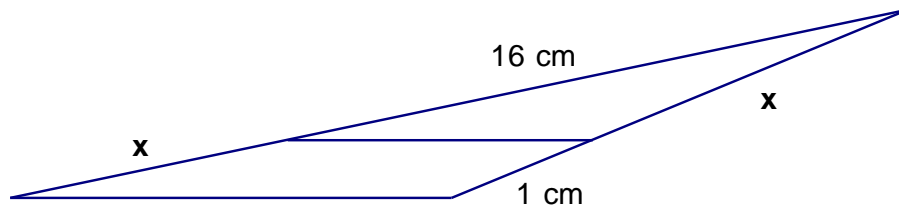

Figure 3

Figure 4

Figure 5

_____ 1.   In Figure 1, find x if $\Delta AED \sim \Delta ABC$

_____ 2.   In Figure 2, find EF if $\Delta EIF \sim \Delta EHG$

_____ 3.   In Figure 2, find HG if $\Delta EIF \sim \Delta EHG$

_____ 4.   In Figure 3, all vertical lines are parallel. Solve for x.

_____ 5.   In Figure 4, the two lines are parallel. Find JK.   (Pay attention to what I have asked you to measure!)

_____ 6.   In Figure 5, find x given that the two horizontal lines are parallel.

_____ 7.   If a 6-foot person creates a 1.5-foot shadow, how large of a shadow would a 40-foot building create?

_____ 8.   Tom looks down on a mirror that is 20 feet away and he sees a bird in the sky. Tom's eyes are exactly 4 feet above the mirror and the distance from the mirror to directly under the bird is 142 feet. How high in the air is the bird?
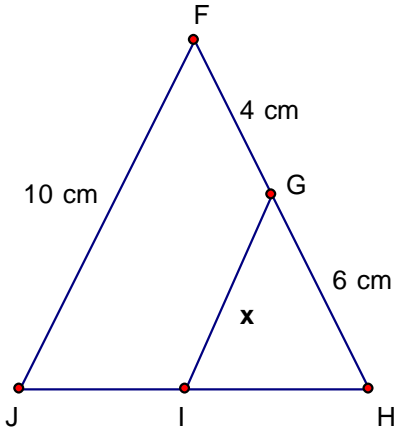
Figure 9

F

4 cm
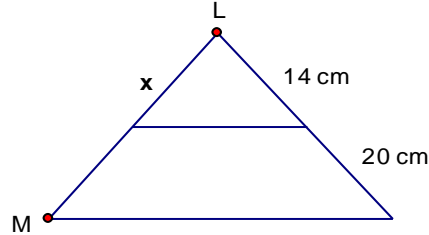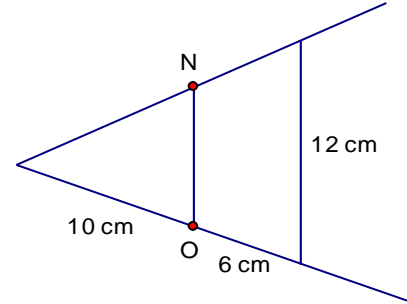
G

10 cm

6 cm

x

M

J   I   H

Figure 10

L

x   14 cm

20 cm

M

Figure 11

N

12 cm

10 cm

O   6 cm

Figure 12

A

D   E

B   C

Figure 13

M

N   O
6 cm

L   8 cm   K

Figure 14

4 cm

x   x

6 cm   2 cm
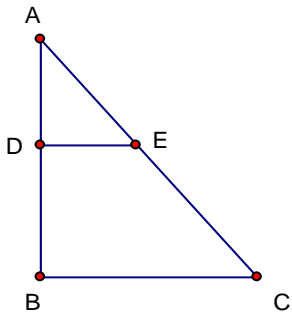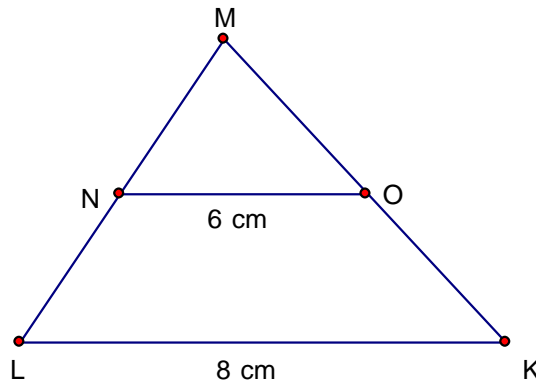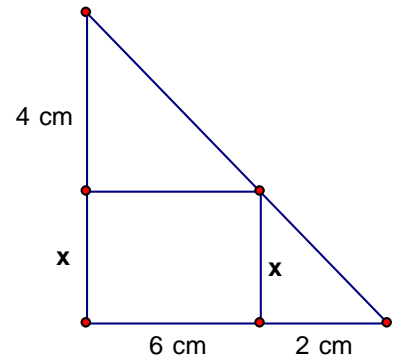
_____ 9.   In Figure 9, Find x if $\Delta FJH \sim \Delta GIH$

_____ 10.   If in Figure 10, LM = 36 cm, what is x?

_____ 11.   In Figure 11, find NO.

_____ 12.   In Figure 12, DE = 4 cm, BC = 10 cm, AE = 8 cm, and AD = 6 cm. What is AB?

_____ 13.   In Figure 13, $\Delta MNO \sim \Delta MLK$ and the perimeter of ΔMNO is 40 cm.
              What is the perimeter of ΔMLK ?

_____ 14.   In Figure 14, the vertical lines are parallel. What is the value of x?