Chapter 5: Similarity
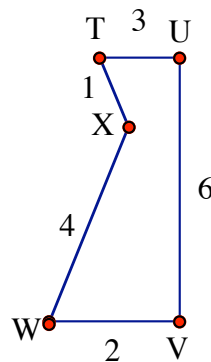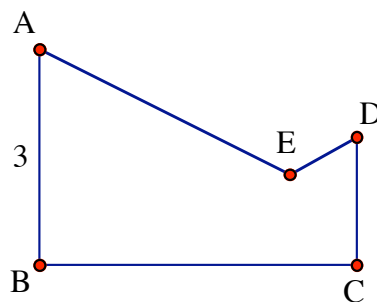**Lesson 5-2**: Similar Polygons
Classwork

For questions 1-4 refer to the above diagram.
1. Complete. Quad ABCD ~ Quad _____.

2. Find the scale factor of the larger polygon to the smaller polygon.

3. Complete. $\dfrac{AB}{?} = \dfrac{?}{QR} = \dfrac{?}{RS} = \dfrac{AD}{?}$.

4.

Write a proportion and solve for x.	Write a proportion and solve for y.	Write a proportion and solve for z.
x = _____	y = _____	z = _____

Pentagon AEDCB ~ Pentagon WXTUV.

5. Find the scale factor of the smaller pentagon to the larger pentagon.

6. Find the indicated lengths.
    AE = _____, ED = _____, DC = _____, BC = _____.

Quad ABCD ~ Quad MNRH.

7. Find the scale factor of the larger polygon to the smaller polygon.

8.

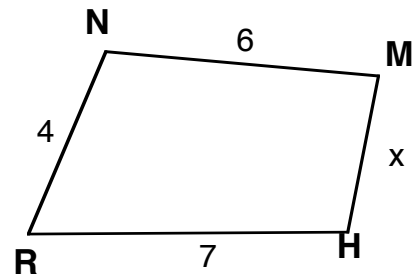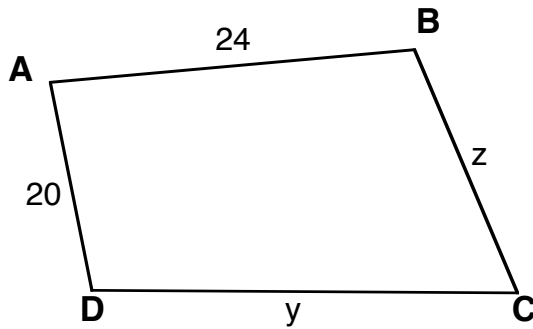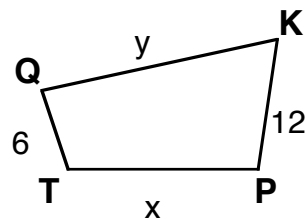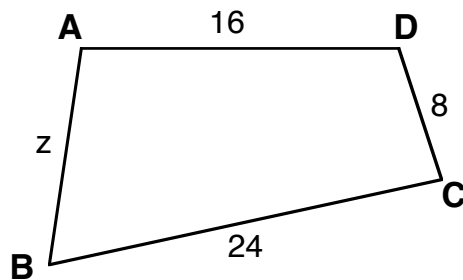| Write a proportion and solve for x. | Write a proportion and solve for y. | Write a proportion and solve for z. |

x = _____   y = _____   z = _____

Quad ABCD ~ Quad PKQT.

9. Find the scale factor of the larger polygon to the smaller polygon.

10.

| Write a proportion and solve for x. | Write a proportion and solve for y. | Write a proportion and solve for z. |

x = _____   y = _____   z = _____