Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Sect \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

M3 L4 HW

1. Caleb sketched the following diagram on graph paper. He dilated points and from center .

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* 1. What is the scale factor ? Show your work.
  2. Verify the scale factor with a different set of segments.
  3. Which segments are parallel? How do you know?
  4. Which angles are equal in measure? How do you know?

1. Points and were dilated from center .

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* 1. What is the scale factor ? Show your work.
  2. If , what is ?
  3. How does the perimeter of triangle compare to the perimeter of triangle ?
  4. Did the perimeter of triangle perimeter of triangle ? Explain.