Instructional Task 3 (MTR.5.1)

— Same angles — sides change (proportional)
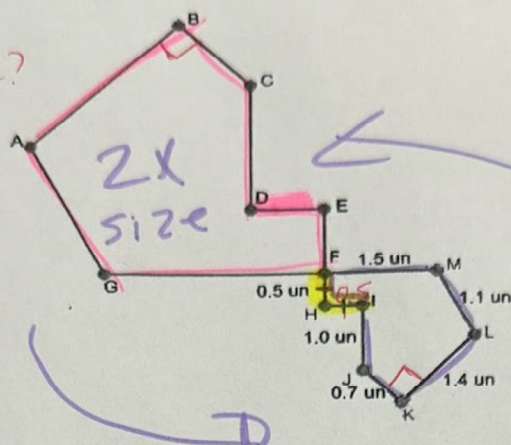
1) Figure ABCDEFG is similar to Figure LKJIHFM with a scale factor of 0.5. Assume that the measure of angle B within Figure ABCDEFG is 90°.

What angle ∠JKL?
90°

2x size

½ size

0.5 un *1.0 un* *1.5 un* *M* *1.1 un* *L* *1.4 un* *0.7 un* *K*

0.5 + 0.5 + 1 + 0.7
+1.4 + 1.1 + 1.5 = 6.7

Perimeter of LKJIHFM
(add all sides)

Part **A**. What is the perimeter of Figure ABCDEFG? *6.7 × 2 = (13.4)*

Part **B**. What is the length of segment DE?
Corresponds to IH so 0.5 × 2 (1)

Part C. Determine the volume of the generated from Part B.
Part D. If trapezoid DCFE is rotated about line $x = 1$, describe the figure that is generated.

add to 7 #25

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(10)

Instructional Task 2 (MTR.5.1)

→ see graph paper

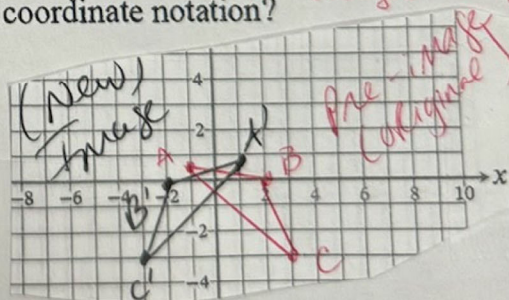| Preimage	Transformation	Image
A(−1.0.5)		A'(1, 0.5)
B(2, 0)	?	B'(−2, 0)
C(3, −3)		C'(−3, −3)

ORIGIN motion
Reflection
Rotation
Translati

Part A. Ask students to plot A, B and C and A', B' and C' on the coordinate plane. What do you notice? *Reflection over the y-axis (Rigid Motion)*

Part B. How can you describe the transformation using words? Explore the patterns among the coordinates of the points of the preimages and the images. *only x value sign changes*

Part C. How can you describe the transformation using coordinate notation?

Rule (−x, y)

NOT Rigid motion dilation