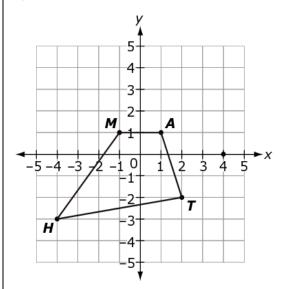
MAFS.912.G-SRT.1.1	Verify experimentally the properties of dilations given by a center and a scale
WIAI 3.312.0-3K1.1.1	factor:
	a. A dilation takes a line not passing through the center of the dilation
	to a parallel line and leaves a line passing through the center
	unchanged.
	b. The dilation of a line segment is longer or shorter in the ratio given
	by the scale factor.
Item Types	Editing Task Choice – May require choosing a statement in a narrative
7,555	description.
	Equation Editor – May require determining the scale factor of a given
	dilation.
	GRID – May require constructing lines and/or line segments to show the
	effects of a given dilation.
	Matching Item – May require choosing true statements given a dilation's
	center and scale factor.
	Multicolast May require colosting figures that show a correct dilation
	Multiselect – May require selecting figures that show a correct dilation.
	Open Response – May require explaining whether or not a dilation is
	accurate or explaining how the scale factor is determined for a given dilation.
	decarate of explaining now the scale factor is determined for a given dilution.
	Table Item – May require generating tables and creating dilations based on
	scale factor input values.
Clarifications	When dilating a line that does not pass through the center of dilation,
	students will verify that the dilated line is parallel.
	When dilating a line that passes through the center of dilation, students will
	verify that the line is unchanged.
	When dilating a line segment, students will verify that the dilated line
	segment is longer or shorter with respect to the scale factor.
Assessment Limits	Items may use line segments of a geometric figure.
	The control of distinct and control feature and the city
	The center of dilation and scale factor must be given.
	Scale factors may be written as a rule
Stimulus Attributes	Scale factors may be written as a rule. Items may give the student a figure or its dilation, center, and scale and ask
Juliulus Attilbutes	the student to verify the properties of dilation.
	the student to verify the properties of dilation.
	Items may be set in a real-world or mathematical context.
Response Attribute	The state of the s
Calculator	Neutral

Sample Item Type

Multiselect

Quadrilateral MATH is shown.



Quadrilateral MATH is dilated by a scale factor of 2.5 centered at (1, 1) to create quadrilateral M'A'T'H'. Select all the statements that are true about the dilation.

- \square $\overline{MA} \cong \overline{M'A'}$
- \Box $\overline{A'T'}$ will overlap \overline{AT} .
- \square $\overline{M'A'}$ will overlap \overline{MA} .
- \Box The slope of \overline{HT} is equal to the slope of $\overline{H'T'}$.