H California



GRADE 8

Teacher Resource Copy Masters

UNITS 1-3



Kendall Hunt

Book 1
Certified by Illustrative Mathematics®

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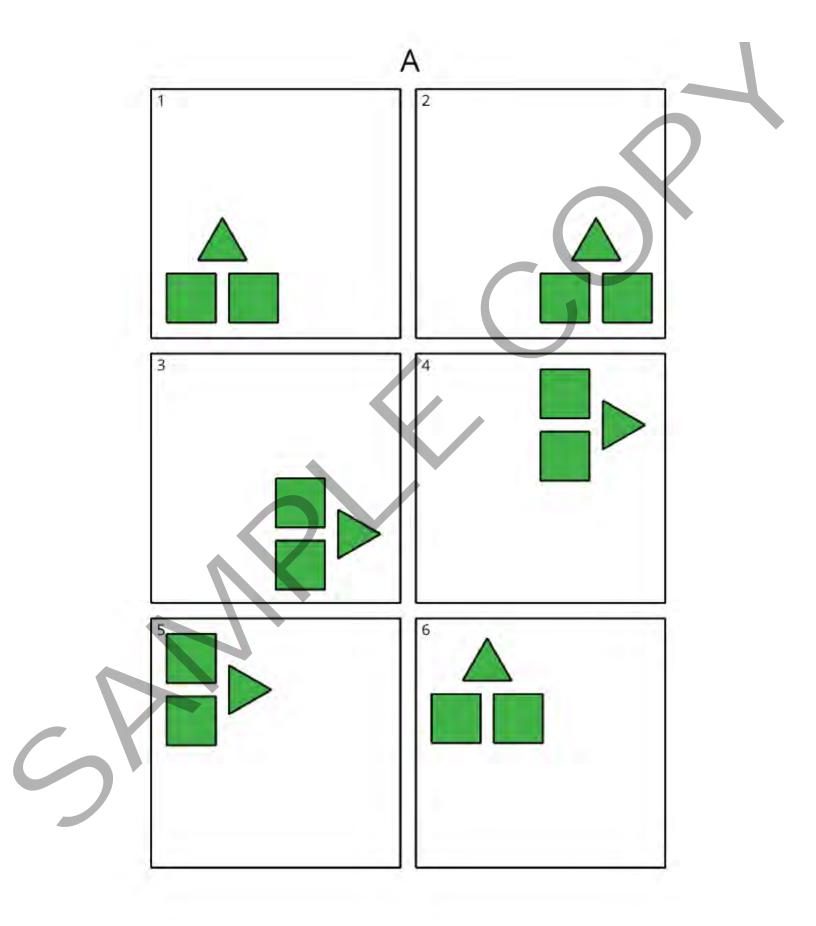


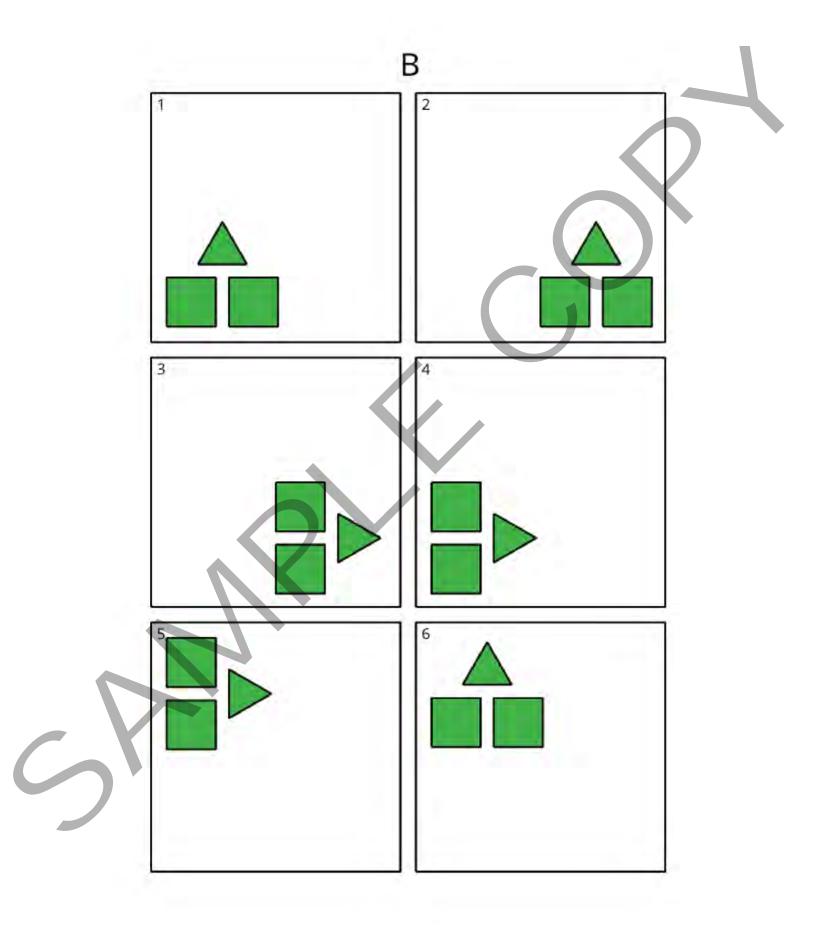
Teacher Resource Copy Masters

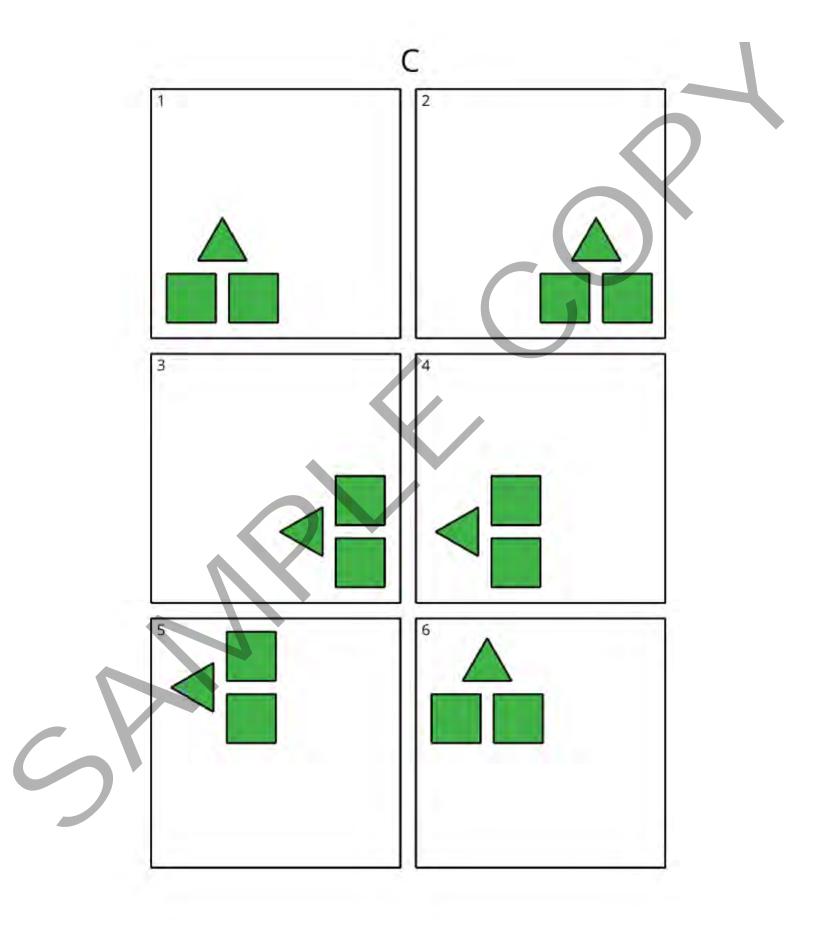
LESSON BLACKLINE MASTERS

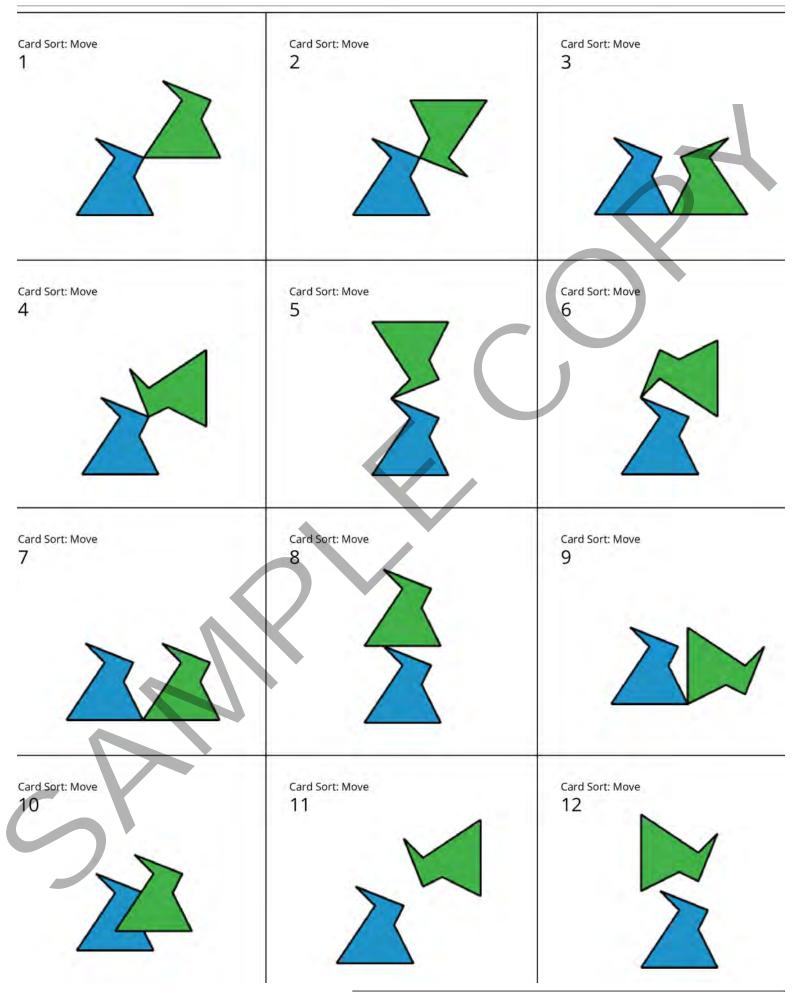
Activity Grade8.1.17.1	Activity Grade8.1.15.3	Activity Grade8.1.15.2	Activity Grade8.1.6.2	Activity Grade8.1.4.2	Activity Grade8.1.2.3	Activity Grade8.1.1.2	Activity Grade8.1.1.1	address
Deducing Angle Measures Handout	Tear it Up Handout	Find All Three Cards	Transformation Information Cards	Make that Move Cards	Move Cards	Triangle Square Dance Handout	6–12 Blank Math Community Chart	title
2	4	15	2	2	ω	2	30	students per copy
no	yes	no	no	no	no	no	no	written on?
yes	no	yes	yes	yes	yes	no	no	requires cutting?
yes	no	yes	по	no	yes	no	no	card stock recommended?
no	no	no	no	no	no	no	no	color paper recommended?
no	no	no	no	no	no	no	no	used multiple times?
no	no	no	no	no	no	no	no	used as a center material?

Teacher	Looks like / Sounds like	Students			
			Doing Math		
Teacher		Students		Math Community	
			Norms		
				Doing Math Students Teacher	Doing Math Students Teacher



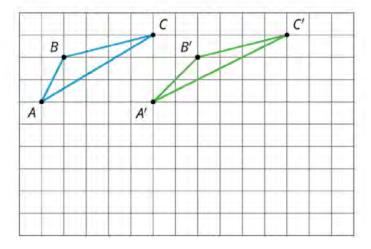






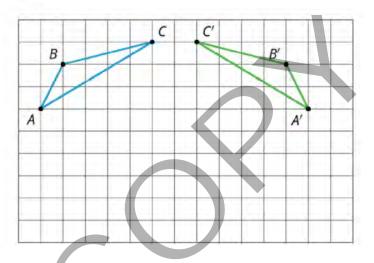
Make That Move

1A



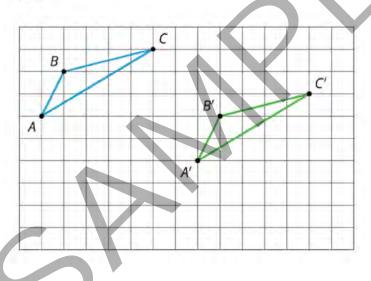
Make That Move

1B



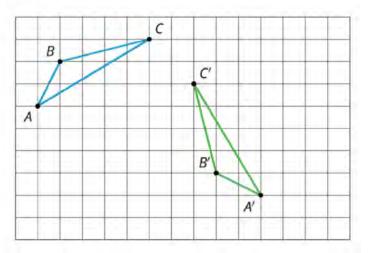
Make That Move

2A



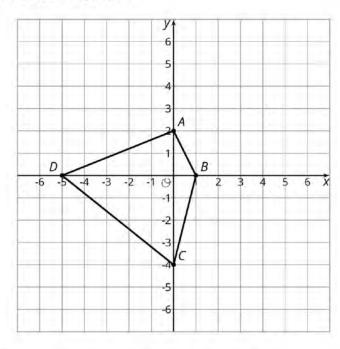
Make That Move

2B



Info Gap: Transformation Information

Problem Card 1



Polygon A'B'C'D' is the image of ABCD after some transformations.

Find A'B'C'D'.

Info Gap: Transformation Information

Data Card 1

Translation: 2 units up and 3 units to the right

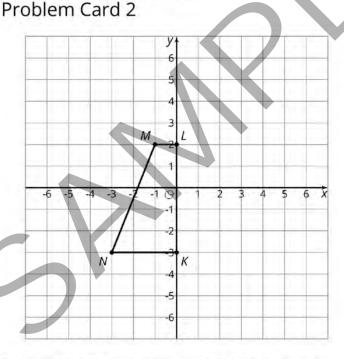
Rotation: none

Reflection: over x-axis

Order of Transformations: Translation first and then

reflection

Info Gap: Transformation Information



Polygon K'L'M'N' is the image of KLMN after some transformations.

Find K'L'M'N'.

Info Gap: Transformation Information

Data Card 2

Translation: 1 unit left and 3 units down

Rotation: 90 degrees

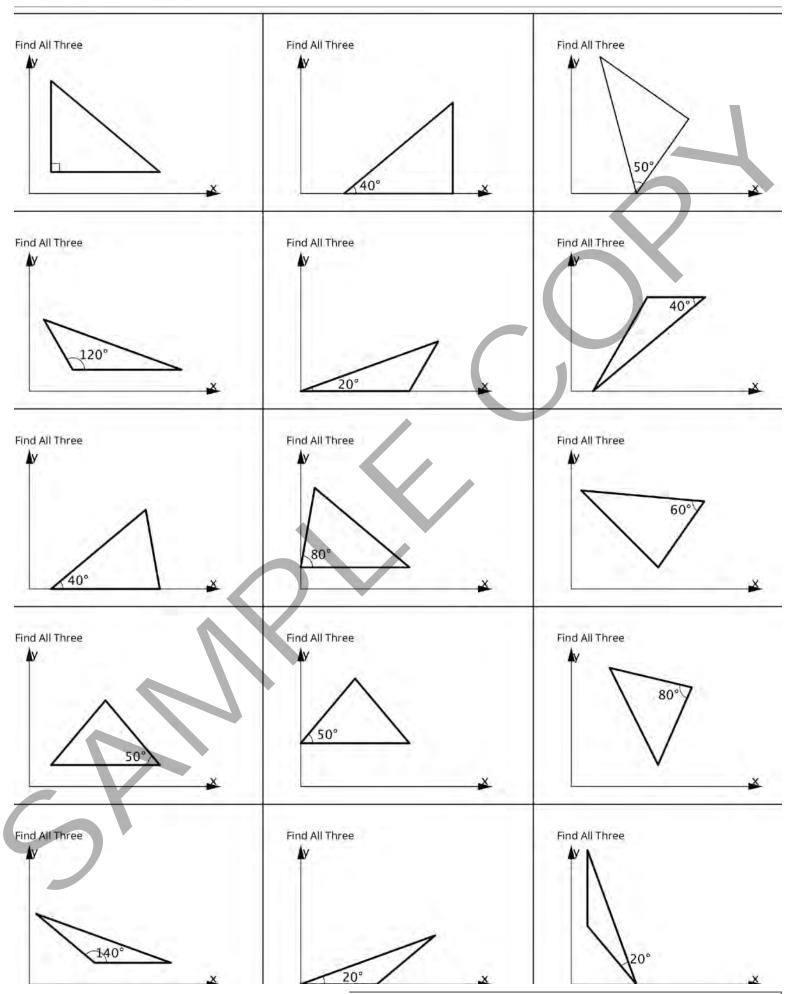
Direction of rotation: clockwise

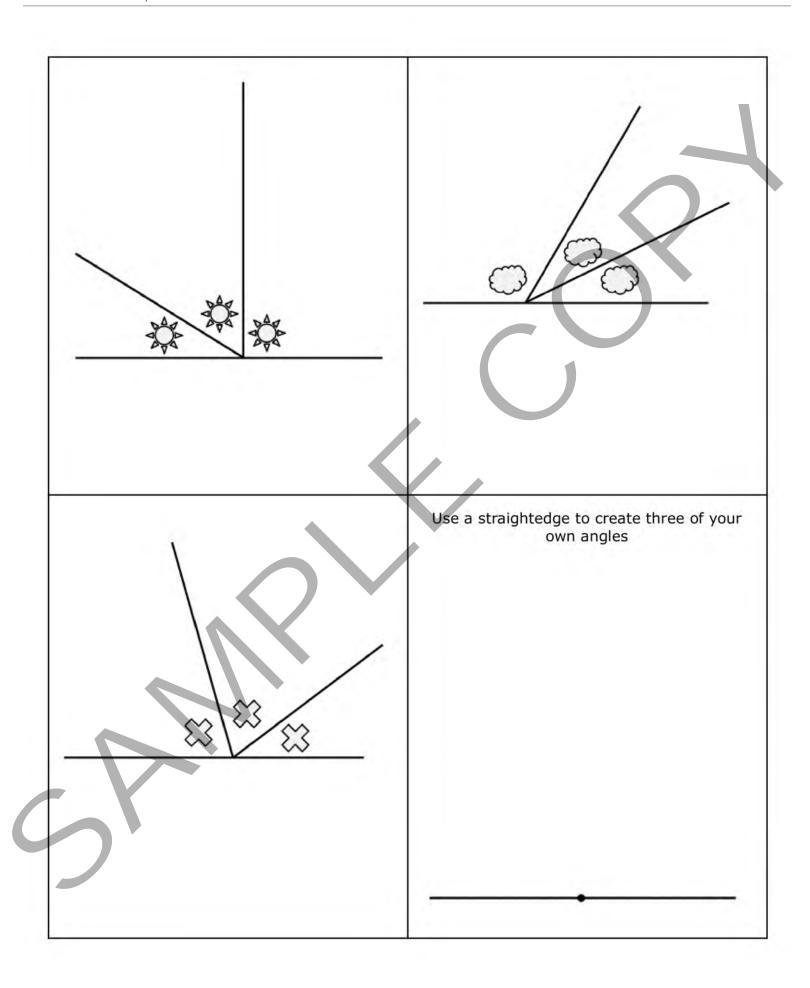
Center of rotation: (0,0)

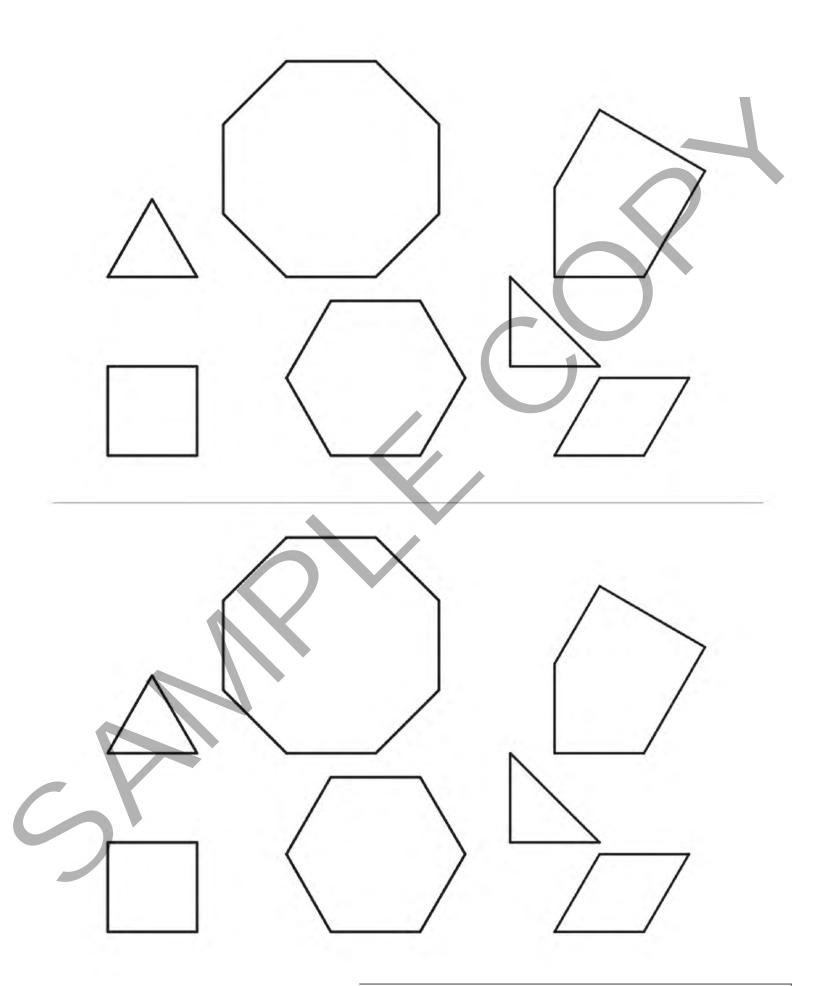
Reflection: none

Order of transformations: Rotation first and then

translation









UNIT

2

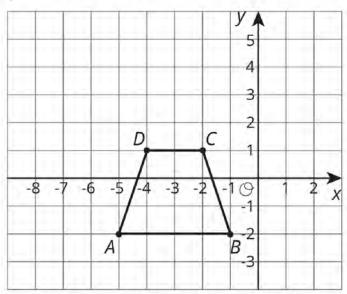
Teacher Resource Copy Masters

LESSON BLACKLINE MASTERS

Activity Grade8.2.8.2	Activity Grade8.2.7.3	Activity Grade8.2.6.4	Activity Grade8.2.5.2	Activity Grade8.2.4.3	address
Making Pasta Angles and Triangles Cards	Find Someone Similar Cards	Methods for Translations and Dilations Cards	Dilations Cards	Matching Dilations on a Coordinate Plane Cards	title
4	10	2	2	22	students per copy
no	no	no	yes	yes	written on?
yes	Yes	yes	yes	yes	requires cutting?
no	no	no	no	no	card stock recommended?
no	no	no	no	no	color paper recommended?
no	no	no	no	no	used multiple times?
no	no	no	no	no	used as a center material?

Card Sort: Matching Dilations on a Coordinate Plane

1



Dilate the trapezoid using center (- 1, - 2) and scale factor $\frac{3}{2}$

Card Sort: Matching Dilations on a Coordinate Plane $m{C}$

The polygon with vertices at:

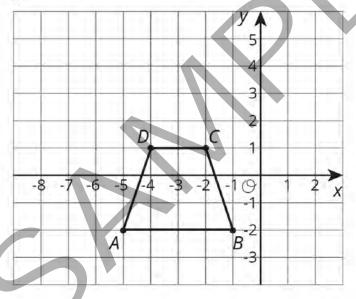
$$A' = (-7, -2)$$

$$B' = (-1, -2)$$

$$C' = \left(-2\frac{1}{2}, 2\frac{1}{2}\right)$$

$$D' = (-5\frac{1}{2}, 2\frac{1}{2})$$

Card Sort: Matching Dilations on a Coordinate Plane 2



Dilate the trapezoid using center (-3, 4) and scale factor $\frac{1}{2}$.

Card Sort: Matching Dilations on a Coordinate Plane $\boldsymbol{\mathsf{A}}$

The polygon with vertices at:

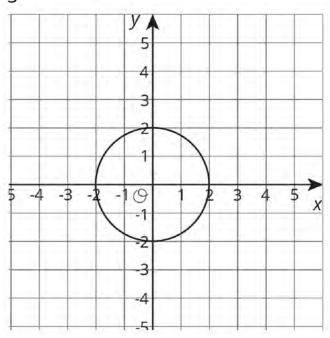
$$A' = (-4, 1)$$

$$B' = (-2, 1)$$

$$C' = (-2\frac{1}{2}, 2\frac{1}{2})$$

$$D' = (-3\frac{1}{2}, 2\frac{1}{2})$$

Card Sort: Matching Dilations on a Coordinate Plane 3

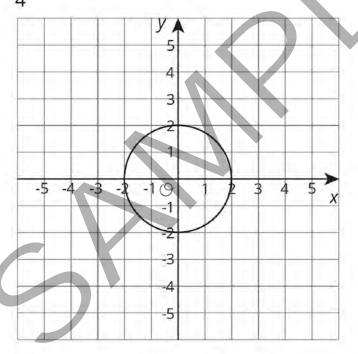


Dilate the circle using center (0,0) and scale factor 2.

 $\hbox{ Card Sort: Matching Dilations on a Coordinate Plane } \\ B$

The circle with center (0,0) and radius 4.

Card Sort: Matching Dilations on a Coordinate Plane ${\cal A}$

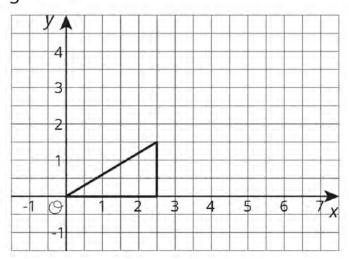


Dilate the circle using center (0,0) and scale factor $\frac{1}{2}$.

Card Sort: Matching Dilations on a Coordinate Plane

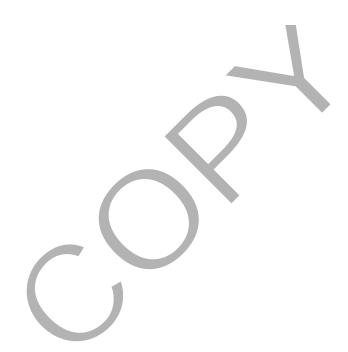
The circle with center (0, 0) and radius 1.

Card Sort: Matching Dilations on a Coordinate Plane 5

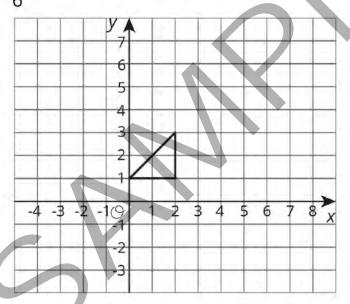


Dilate the triangle using center (0, 0) and scale factor 2.

Card Sort: Matching Dilations on a Coordinate Plane



Card Sort: Matching Dilations on a Coordinate Plane



Dilate the triangle using center (-4, -3) and scale factor 1.5.

Card Sort: Matching Dilations on a Coordinate Plane ${\sf D}$

The polygon with vertices at (2,3), (5,3), and (5,6).

This page includes an additional set of info gap cards to use as an optional demonstration.

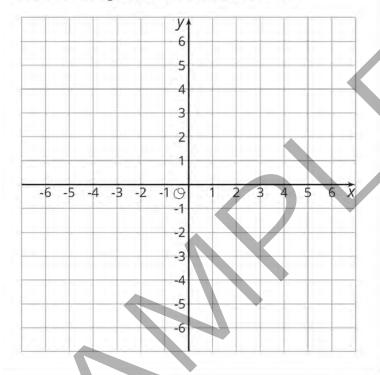
Cards for the student activity are located on the following page.

Info Gap: Dilations

Problem Card 0

Polygon JKL is dilated.

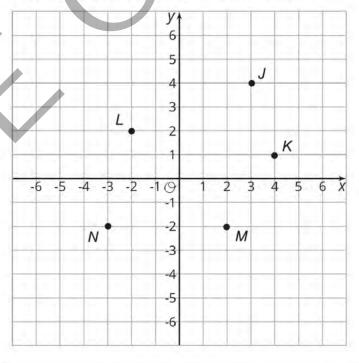
Draw the image of JKL under this dilation.



Info Gap: Dilations

Data Card 0

Center of Dilation: (0, 0) Scale Factor: 2

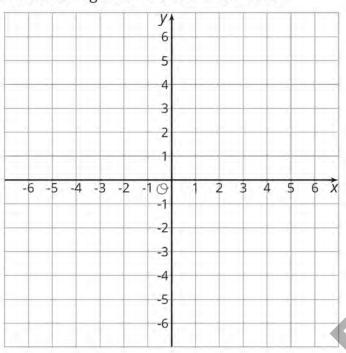


Info Gap: Dilations

Problem Card 1

Polygon AFID is dilated.

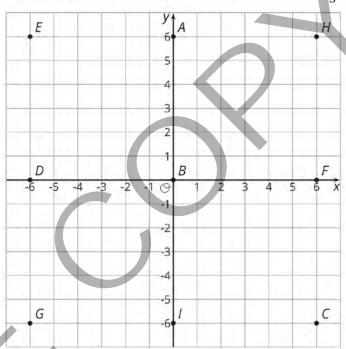
Draw the image of AFID under this dilation.



Info Gap: Dilations

Data Card 1

Center of Dilation: (0, 0) Scale Factor: $\frac{1}{3}$

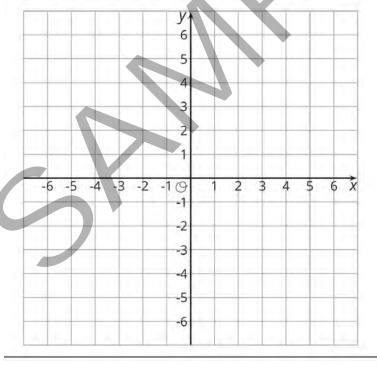


Info Gap: Dilations

Problem Card 2

Polygon ONPQ is dilated.

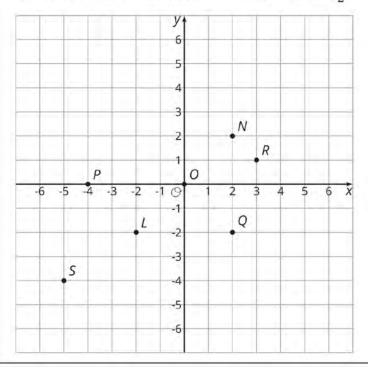
Draw the image of ONPQ under this dilation.



Info Gap: Dilations

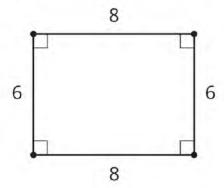
Data Card 2

Center of Dilation: (- 4, 0) Scale Factor: $\frac{3}{2}$

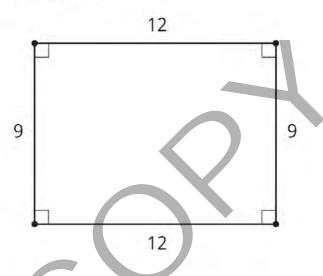


Translate from D to A Methods for Translations and Dilations Partner B Translate from D to P Methods for Translations and Dilations Partner B
Partner B Translate from D to P Methods for Translations and Dilations
Methods for Translations and Dilations
Dilate using center A and scale factor $\frac{1}{3}$
Methods for Translations and Dilations Partner B
Dilate using center D and scale factor $\frac{1}{3}$
Methods for Translations and Dilations Partner B
Dilate using center P and scale factor $\frac{1}{3}$
F

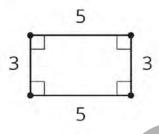
Find Someone Similar



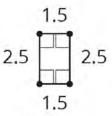
Find Someone Similar



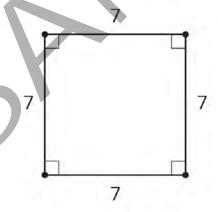
Find Someone Similar



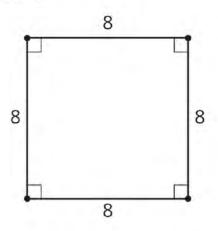
Find Someone Similar



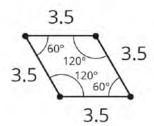
Find Someone Similar



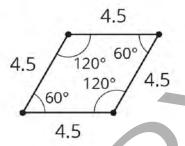
Find Someone Similar



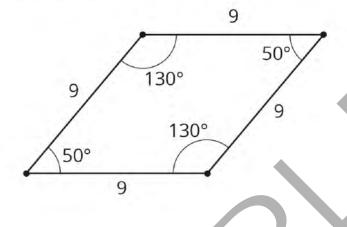
Find Someone Similar



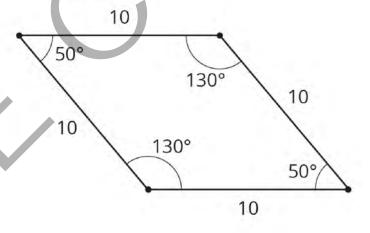
Find Someone Similar



Find Someone Similar



Find Someone Similar



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Making Pasta Angles and Triangles	Making Pasta Angles and Triangles		
Making Pasta Angles and Triangles B	Making Pasta Angles and Triangles		
Making Pasta Angles and Triangles	Making Pasta Angles and Triangles		
Making Pasta Angles and Triangles B	Making Pasta Angles and Triangles		
	Making Pasta Angles and Triangles B Making Pasta Angles and Triangles B Making Pasta Angles and Triangles		