DESTINATION TRANSFORMATION

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WHAT TRANSFORMATION IS NOT AN ISOMETRY?

DILATION PRODUCES WHAT KIND OF FIGURES?

ISOMETRIC TRANSFORMATIONS PRODUCE WHAT KINDS OF FIGURES?

WHAT DOES IT MEAN IF A TRANSFORMATION IS AN ISOMETRY?

WHEN ROTATING 180°, WHY DON'T WE HAVE TO SPECIFY WHETHER THE ROTATION IS CLOCKWISE OR COUNTERCLOCKWISE?

A 90° ROTATION COUNTERCLOCKWISE IS THE SAME AS WHAT CLOCKWISE ROTATION?

REFLECTING A FIGURE TWICE OVER PARALLEL LINES WILL PRODUCE THE SAME IMAGE AS WHAT SINGLE TRANSFORMATION?

IN A REFLECTION, THE IMAGE AND PREIMAGE ARE _____ FROM THE LINE OF REFLECTION.

WHAT HAPPENS TO A FIGURE THAT IS DILATED WITH A SCALE FACTOR GREATER THAN 1?

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WHAT HAPPENS TO A FIGURE THAT IS DILATED WITH A SCALE FACTOR LESS THAN 1?	WHAT MEASURES ARE PRESERVED IN DILATIONS?	HOW CAN WE USE TRANSFORMATIONS TO DETERMINE IF TWO FIGURES ARE CONGRUENT?
HOW CAN YOU TELL IF A FIGURE IS A TRANSLATED IMAGE OF ANOTHER FIGURE?	HOW CAN YOU TELL IF ONE FIGURE IS A ROTATED IMAGE OF ANOTHER FIGURE?	HOW CAN YOU TELL IF ONE FIGURE IS A REFLECTION OF ANOTHER FIGURE?
DEMONSTRATE A HALF-TURN USING YOUR BODY.	WHAT WOULD A 360° TURN LOOK LIKE? DEMONSTRATE WITH YOUR BODY.	DESCRIBE INFORMALLY WHAT A ROTATION IS/LOOKS LIKE.

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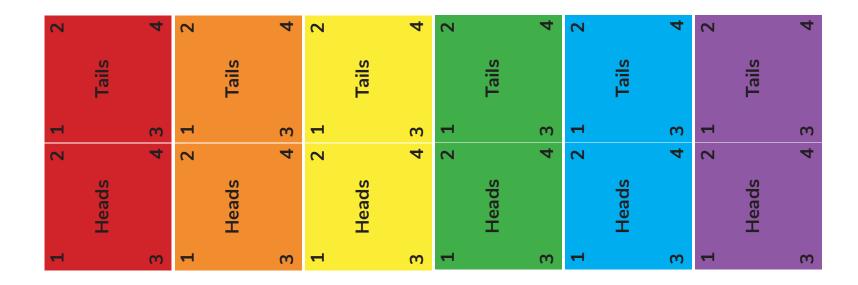DESTINATION TRANSFORMATION

DESCRIBE INFORMALLY WHAT A TRANSLATION IS/LOOKS LIKE.	DESCRIBE INFORMALLY WHAT A REFLECTION IS/LOOKS LIKE.	USING YOUR HANDS, SHOW WHAT THE RESULT OF A REFLECTION LOOKS LIKE.
HOW DOES A DILATION CHANGE A FIGURE?	DEMONSTRATE A SLIDE USING YOUR BODY.	DEMONSTRATE A QUARTER-TURN WITH YOUR BODY.
WHAT WOULD A 180° TURN LOOK LIKE? DEMONSTRATE WITH YOUR BODY.	WHAT WOULD A 90° TURN LOOK LIKE? DEMONSTRATE WITH YOUR BODY.	DEMONSTRATE A THREE QUARTER TURN WITH YOUR BODY.

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WHAT NUMBER OF DEGREES IS A QUARTER TURN?

WHAT NUMBER OF DEGREES IS A THREE QUARTER TURN?

TRANSLATE YOUR BODY 3 STEPS LEFT AND 2 STEPS BACKWARDS.

Tails	Tails	Tails	Tails	Tails	Tails
Heads	Heads	Heads	Heads	Heads	Heads

(Each colored tile is labeled with the corners numbered 2, 4 on top and 1, 3 on bottom, with "Tails" on the upper half and "Heads" on the lower half, in red, orange, yellow, green, blue, and purple.)

FIN

TRANSLATE!	**REFLECT** over the purple line	**ROTATE** 180° about the yellow star	**TRANSLATE!**
REFLECT over the green line	**ROTATE** 270° counterclock-wise about the yellow star	**?**	**REFLECT** over the blue line
?			
TRANSLATE!	**REFLECT** over the green line	**REFLECT** over the blue line	**TRANSLATE!**
			ROTATE 90° counterclockwise about the point of intersection of the reflection lines
CARDS GO HERE FACEDOWN			**REFLECT** over the blue line
START	**REFLECT** over the green line	**REFLECT** over the red line	**ROTATE** 180° about the point of intersection of the reflection lines

ISH

REFLECT over the purple line	**REFLECT** over the blue line	**ROTATE** 180° counterclockwise about the turquoise circle	**?**
		TRANSLATE!	
REFLECT over the red line	**ROTATE** 180° counterclockwise about the pink diamond		**ROTATE** 180° counterclockwise about the pink diamond
	REFLECT over the blue line		**ROTATE** 270° counterclockwise about the pink diamond
?	**ROTATE** 90° counterclockwise about the pink diamond		**REFLECT** over the red line

TRANSLATE!	**REFLECT** over the red line	**ROTATE** 90° counterclockwise about the grey square	**ROTATE** 90° **counterclockwise about the grey square**
			?
TRANSLATE!	**TRANSLATE** 1 unit up, then **REFLECT** over the blue line	**ROTATE** 180° about the grey square	**REFLECT** over the red line