TRANSFORMATIONS

GROUP MEMBER NAMES:

lock	CODE
lock #1	EQUATION
LOCK #2	TRAPEZOID
LOCK #3	MATH
LOCK #4	ANGLES
LOCK #5	YEAD
LOCK #6	NYNYY
LOCK #7	400
LOCK # 8	TTFT

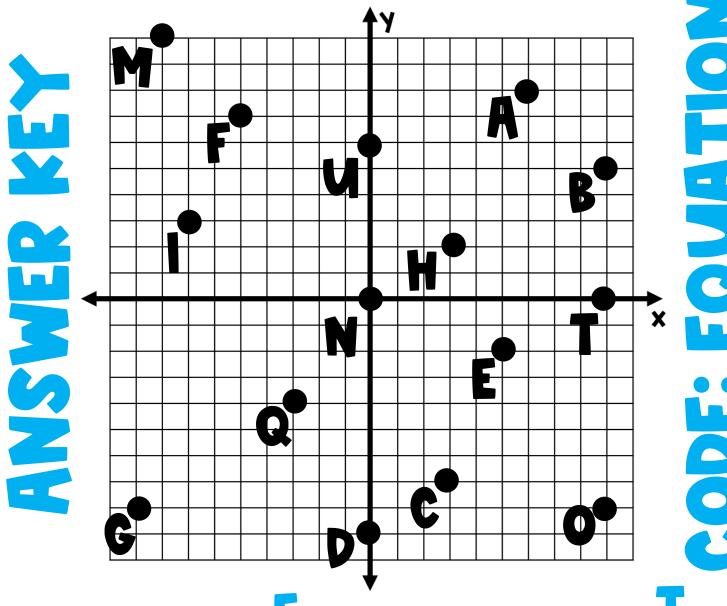
TRANSFORMATIONS

ANSWER KEY AT A GLANCE

[O(k	(ODE
[O(k #1	[QUATION
10(1) #2	TRAPEZOID
10(k #3	MATH
[O(k #H	ANGLES
LO(k #5	Υ[AR
LO(k #6	NYNNYY
LO(K #7	400
LO(K #8	TTFT

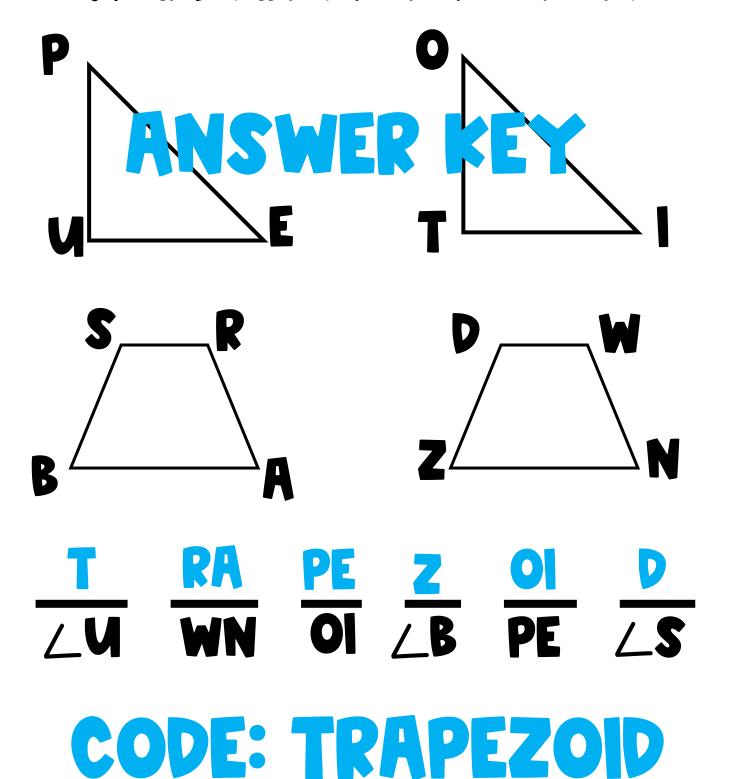
LOCK #1: GRAPHING POINTS

IDENTIFY WHICH LETTER IS FOUND AT EACH OF THE ORDERED PAIRS LISTED. WHEN WRITTEN IN ORDER, THE LETTERS WILL CREATE A RECOGNIZABLE WORD THAT IS YOUR FIRST CODE.



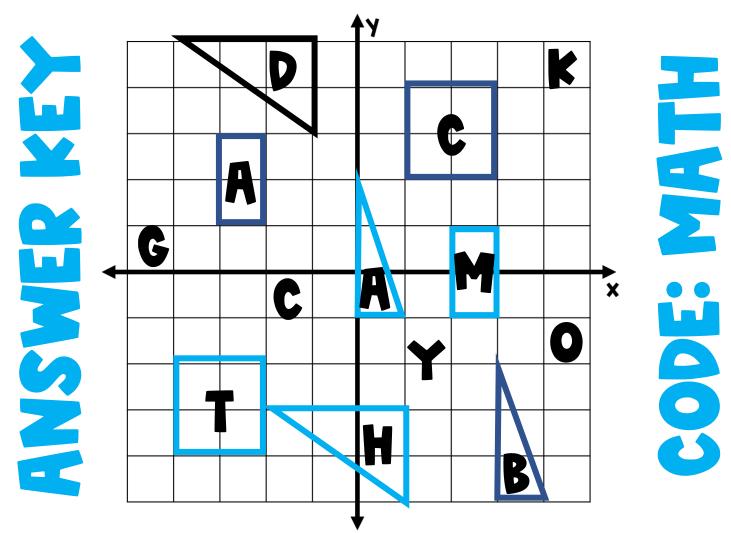
LOCK #2: CONGRUENT FIGURES

EACH SET OF SHAPES ARE CONGRUENT. FOR EACH SIDE OR ANGLE LISTED BELOW EACH BLANK, WRITE THE CORRESPONDING SIDE OR ANGLE TO DETERMINE WHICH SHOULD BE FILLED IN TO CREATE YOUR CODE.



LOCK #3: TRANSLATIONS

USE THE RULE TO TRANSLATE EACH SHAPE. IF DONE CORRECTLY, THE SHAPE SHOULD FRAME A LETTER THAT WILL CREATE A WORD FOR YOUR CODE!

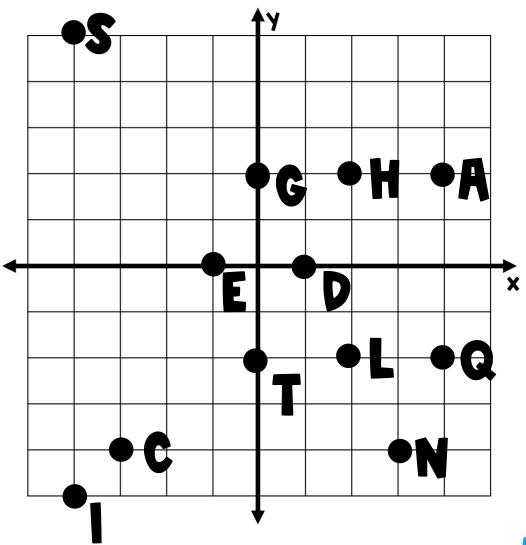


- 1. FIGURE A TRANSLATED WITH THE RULE (X + 5, Y 2)
- 2. FIGURE B TRANSLATED WITH THE RULE (X 3, Y + 4)
- 3. FIGURE C TRANSLATED WITH THE RULE (X 5, Y 6)
- 4. FIGURE D TRANSLATED WITH THE RULE (X + 2, Y 8)

CODE: M A T H

LOCK #4: REFLECTIONS

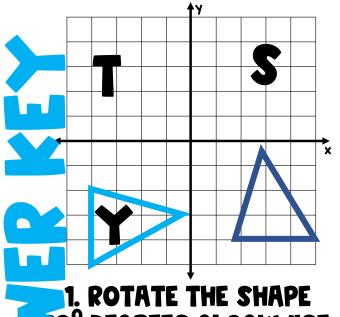
USE THE RULE TO REFLECT EACH POINT ACROSS THE GIVEN AXIS. USE THE LETTER WITH THE REFLECTED POINT TO CREATE YOUR CODE.

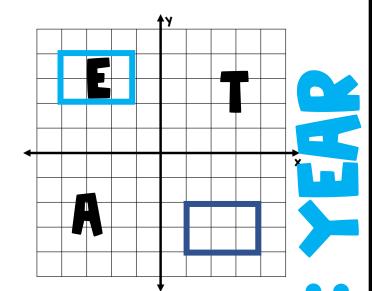


1. (4, -2) REFLECTED ACROSS THE X AXIS 2. (-3, -4): REFLECTED ACROSS THE Y AXIS 3. (O, 2): REFLECTED ACROSS THE Y AXIS. ECTED ACROSS THE X AXIS 5. (1, 0): REFLECTED ACROSS THE Y AXIS 6. (-4, -5): REFLECTED ACROSS THE X AXIS

LOCK #5: ROTATIONS

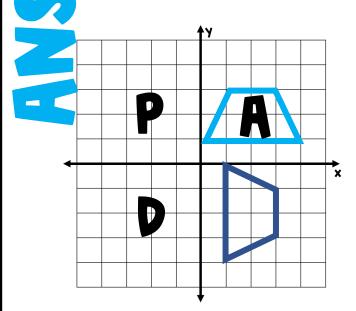
POTATE THE FOLLOWING SHAPES ACCORDING TO THE DEGREES LISTED. THE ROTATED SHAPE WILL FRAME A LETTER THAT WILL CREATE YOUR FOUR DIGIT CODE.





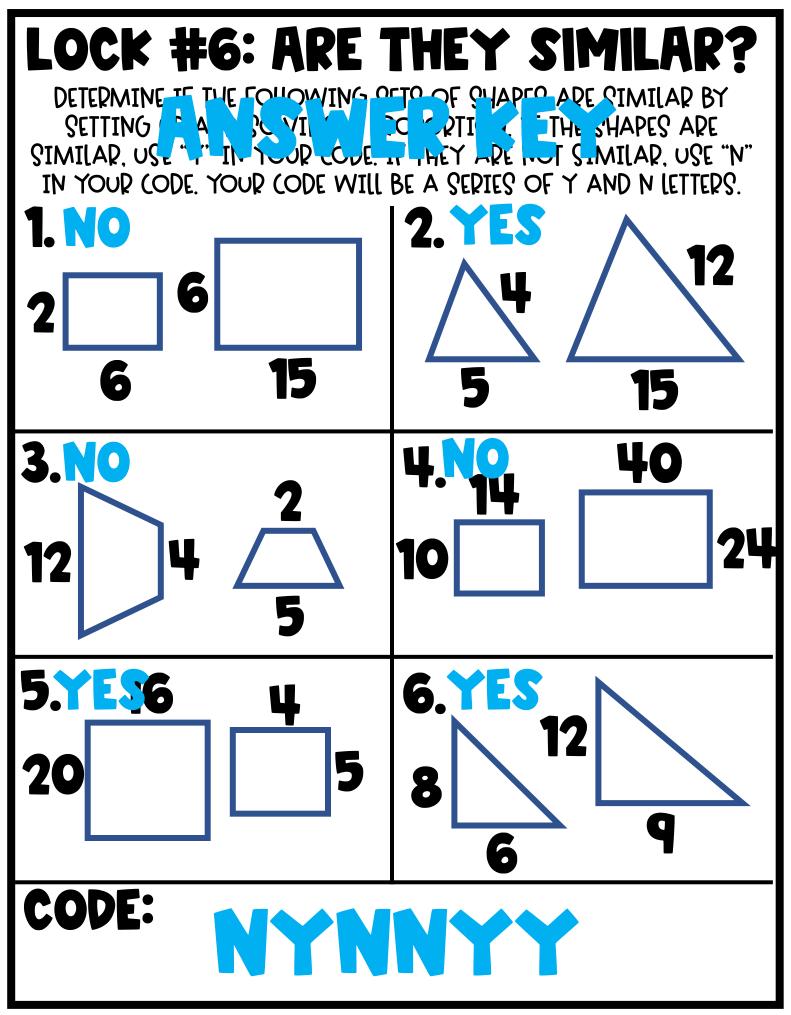
DEGREES CLOCKWISE.

2. ROTATE THE SHAPE 18 DEGREES CLOCKWISE.



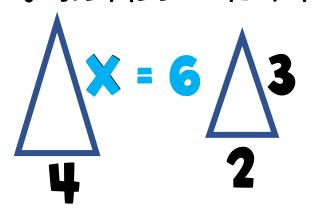
3. ROTATE THE SHAPE 90° DEGREES COUNTERCLOCKWISE.

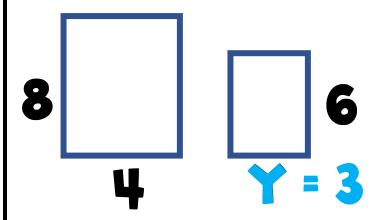
4. ROTATE THE SHAPE 270° DEGREES CLOCKWISE.

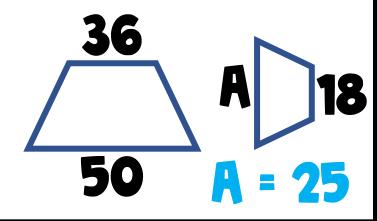


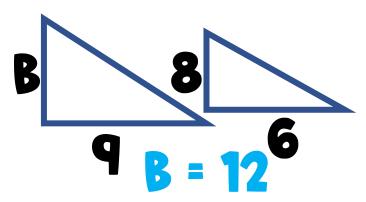
LOCK #7: SIMILAR FIGURES

THE FOLLOWING SHAPES APE STATLAR USE PROPORTIONS
TO FIND THE WASS THE TIME SEPTACE THE
VARIABLES WITH THEIR CORRESPONDING ANSWERS AND
SOLVE THE EQUATION TO GET YOUR NUMERIC CODE.









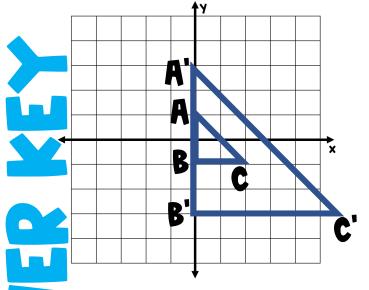
CODE EQUATION:

$$\frac{25(12+6^2)}{3} = \frac{25(48)}{3} = \frac{1,200}{3}$$

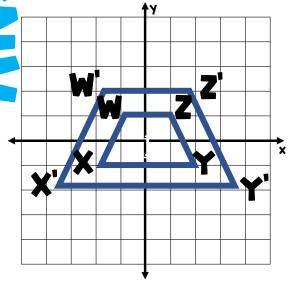
$$CODE = 400$$

LOCK #8: DILATIONS

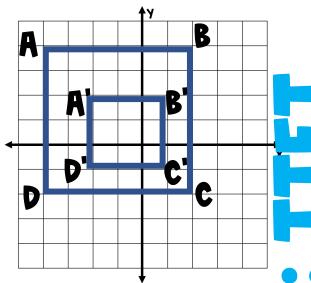
DETERMINE IF THE FOLLOWING GRAPHS CORRECTLY SHOW EACH DILATION. IF THE DILATION IS CORRECT, USE THE LETTER T IN YOUR CODE (FOR TRUE). IF IT IS NOT CORRECT, USE THE LETTER F IN YOUR CODE (FOR FALSE).



LATE TRIANGLE ABC WITH A
SCALE FACTOR OF 3.
TOR F

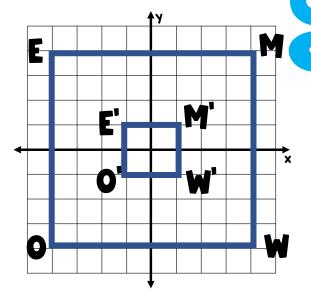


3. DILATE WXYZ WITH A SCALE FACTOR OF 3.
T OR F



2. DILATE ABCD WITH A SCALE FACTOR OF .5

T) OR F



4. DILATE MEOW WITH A SCALE FACTOR OF .25.
T OR F