

Transformation Review

Name: Key

Directions: Answer each question completely. Show all of your work. Good Luck! ☺

1) Match each term with its definition.

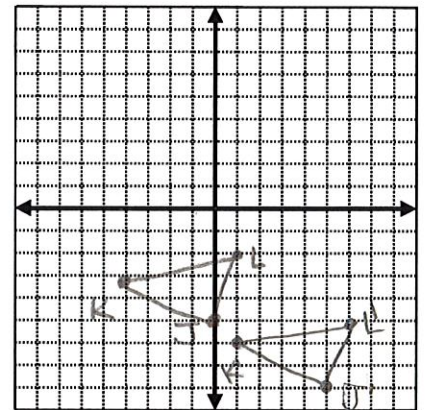
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|-------------------------|---|
| <u>D</u> dilation | A. A transformation that turns a figure around a fixed point |
| <u>G</u> image | B. A transformation that flips a figure over a line |
| <u>E</u> pre-image | C. A transformation that slides a figure the same distance and direction |
| <u>B</u> reflection | D. A transformation that changes the size of a figure |
| <u>A</u> rotation | E. The original figure |
| <u>C</u> translation | F. A change in the size, shape, or position of a figure |
| <u>F</u> transformation | G. The figure you get after a transformation has been performed |

2) Translate P(-6, 5) left ^{x-5} 5 units and down ^{y-3} 3 units. Give the coordinates of the image point.

- a. (2, -11) b. (8, -1) **c. (-11, 2)** d. (-1, 8)

3) Translate $\triangle JKL$ with the vertices J(0, -5); K(-4, -3); and L(1, -2) 5 units to the right and down 3 units. What are the coordinates of the image of the translation? $(x, y) \rightarrow (x+5, y-3)$

- J' (5, -8)
- K' (1, -6)
- L' (6, -5)



4) Which of the following is **NOT** described by the rule $(x, y) \rightarrow (x+2, y-3)$?

- a. $(3, -2) \rightarrow (5, -5)$ b. $(0, 4) \rightarrow (2, 1)$ c. $(-4, 1) \rightarrow (-2, -2)$ **d. $(1, -5) \rightarrow (3, -2)$**

5) Use arrow notation to write a rule that describes the given translation

Rule: $(x, y) \rightarrow (x+6, y-8)$

