

## Vocabulary: Translations



### Vocabulary

- **Image** – a figure that has been transformed, compared to the original figure (the preimage).
  - Transformations include resizing, reflecting, rotating, or translating a figure.
- **Matrix** – a rectangular array of numbers and/or variables.
  - The matrix shown to the right has 2 rows and 3 columns, so it is a  $2 \times 3$  matrix.
  - Each number or variable in a matrix is called an *element*.
- **Preimage** – the original figure, before being transformed.
- **Translation** – a movement of a figure from one place to another.
  - In the figure shown to the right, the preimage,  $\triangle ABC$ , has been translated 10 units to the left and 3 units up to get the image,  $\triangle JKL$ .

$$\begin{bmatrix} -5 & 16 & 7 \\ -8 & -4 & 10 \end{bmatrix}$$

