

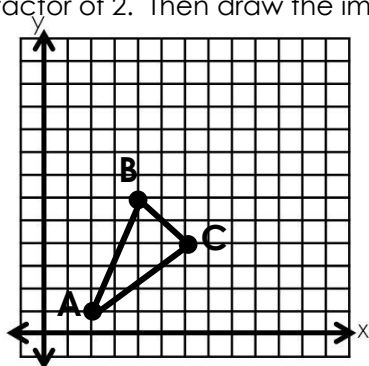
**USING A
DILATION TO
ENLARGE
A FIGURE**

**USING A
DILATION TO
REDUCE
A FIGURE**

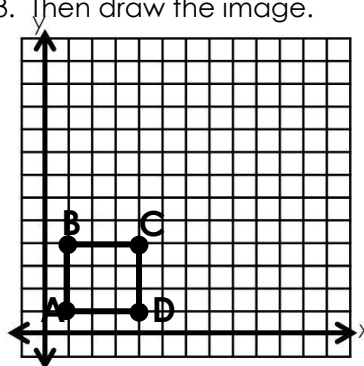
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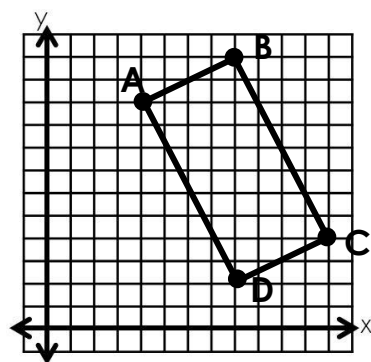
EXAMPLE 1: Find the vertices of the image of $\triangle ABC$ after a dilation by a scale factor of 2. Then draw the image.



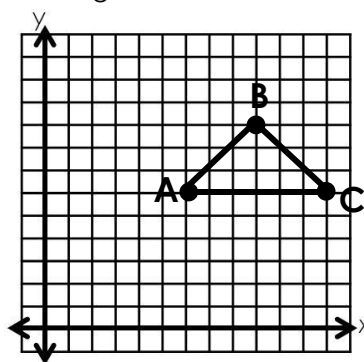
EXAMPLE 2: Find the vertices of the image of quadrilateral ABCD after a dilation by a scale factor of 3. Then draw the image.



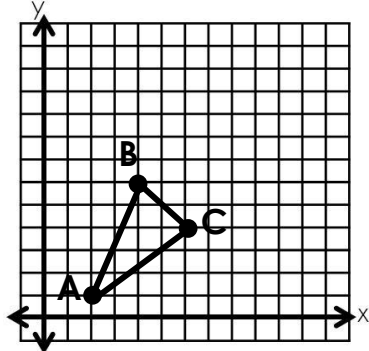
EXAMPLE 3: Find the vertices of the image of quadrilateral ABCD after a dilation by a scale factor of $\frac{1}{2}$. Then draw the image.



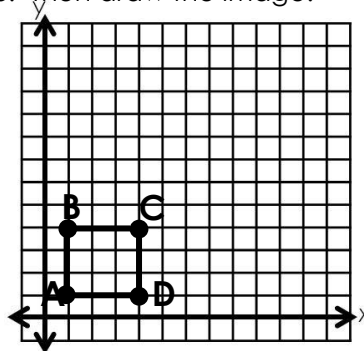
EXAMPLE 4: Find the vertices of the image of $\triangle ABC$ after a dilation by a scale factor of $\frac{1}{3}$. Then draw the image.



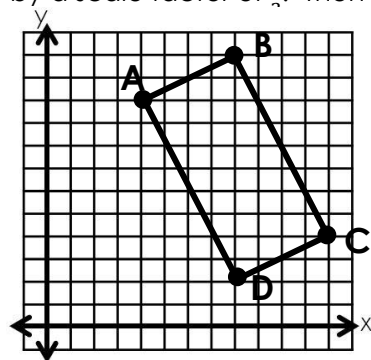
EXAMPLE 1: Find the vertices of the image of $\triangle ABC$ after a dilation by a scale factor of 2. Then draw the image.



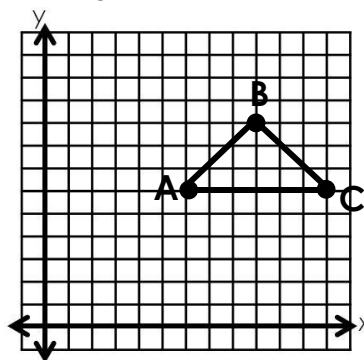
EXAMPLE 2: Find the vertices of the image of quadrilateral ABCD after a dilation by a scale factor of 3. Then draw the image.



EXAMPLE 3: Find the vertices of the image of quadrilateral ABCD after a dilation by a scale factor of $\frac{1}{2}$. Then draw the image.



EXAMPLE 4: Find the vertices of the image of $\triangle ABC$ after a dilation by a scale factor of $\frac{1}{3}$. Then draw the image.



Answer
Key

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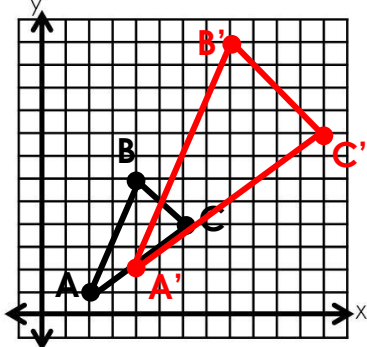
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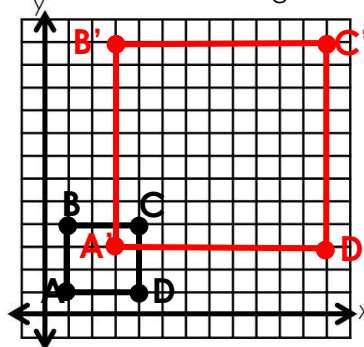
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DILATION TO
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EXAMPLE 1: Find the vertices of the image of $\triangle ABC$ after a dilation by a scale factor of 2. Then draw the image.



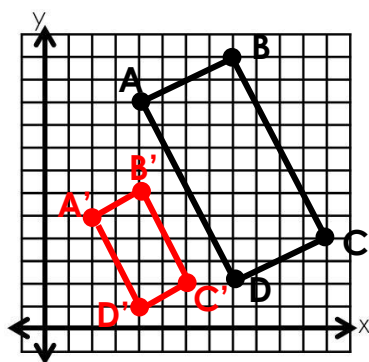
$$\begin{aligned} A(2,1) &\rightarrow A'(4,2) \\ B(4,6) &\rightarrow B'(8,12) \\ C(6,4) &\rightarrow C'(12,8) \end{aligned}$$

EXAMPLE 2: Find the vertices of the image of quadrilateral ABCD after a dilation by a scale factor of 3. Then draw the image.



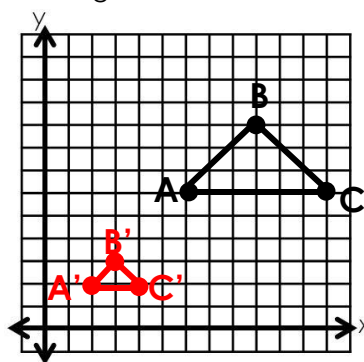
$$\begin{aligned} A(1,1) &\rightarrow A'(3,3) \\ B(1,4) &\rightarrow B'(3,12) \\ C(4,4) &\rightarrow C'(12,12) \\ D(4,1) &\rightarrow D'(12,3) \end{aligned}$$

EXAMPLE 3: Find the vertices of the image of quadrilateral ABCD after a dilation by a scale factor of $\frac{1}{2}$. Then draw the image.



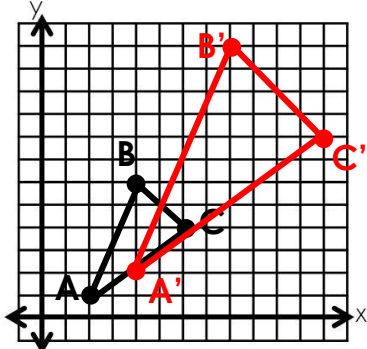
$$\begin{aligned} A(4,10) &\rightarrow A'(2,5) \\ B(8,12) &\rightarrow B'(4,6) \\ C(12,4) &\rightarrow C'(6,2) \\ D(8,2) &\rightarrow D'(4,1) \end{aligned}$$

EXAMPLE 4: Find the vertices of the image of $\triangle ABC$ after a dilation by a scale factor of $\frac{1}{3}$. Then draw the image.



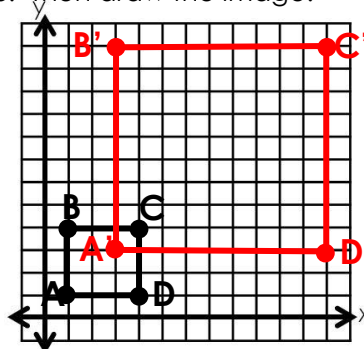
$$\begin{aligned} A(6,6) &\rightarrow A'(2,2) \\ B(9,9) &\rightarrow B'(3,3) \\ C(12,6) &\rightarrow C'(4,2) \end{aligned}$$

EXAMPLE 1: Find the vertices of the image of $\triangle ABC$ after a dilation by a scale factor of 2. Then draw the image.



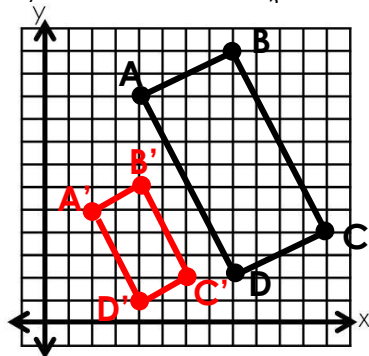
$$\begin{aligned} A(2,1) &\rightarrow A'(4,2) \\ B(4,6) &\rightarrow B'(8,12) \\ C(6,4) &\rightarrow C'(12,8) \end{aligned}$$

EXAMPLE 2: Find the vertices of the image of quadrilateral ABCD after a dilation by a scale factor of 3. Then draw the image.



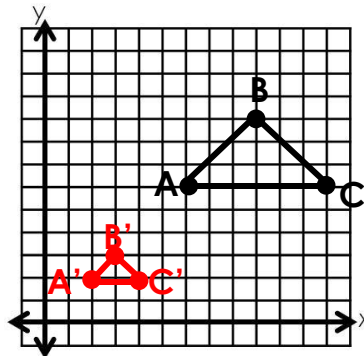
$$\begin{aligned} A(1,1) &\rightarrow A'(3,3) \\ B(1,4) &\rightarrow B'(3,12) \\ C(4,4) &\rightarrow C'(12,12) \\ D(4,1) &\rightarrow D'(12,3) \end{aligned}$$

EXAMPLE 3: Find the vertices of the image of quadrilateral ABCD after a dilation by a scale factor of $\frac{1}{2}$. Then draw the image.



$$\begin{aligned} A(4,10) &\rightarrow A'(2,5) \\ B(8,12) &\rightarrow B'(4,6) \\ C(12,4) &\rightarrow C'(6,2) \\ D(8,2) &\rightarrow D'(4,1) \end{aligned}$$

EXAMPLE 4: Find the vertices of the image of $\triangle ABC$ after a dilation by a scale factor of $\frac{1}{3}$. Then draw the image.



$$\begin{aligned} A(6,6) &\rightarrow A'(2,2) \\ B(9,9) &\rightarrow B'(3,3) \\ C(12,6) &\rightarrow C'(4,2) \end{aligned}$$

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Print pages 1 & 2 front to back. Flip along the long edge.

Each page creates two foldables.

The final product should look like this:

