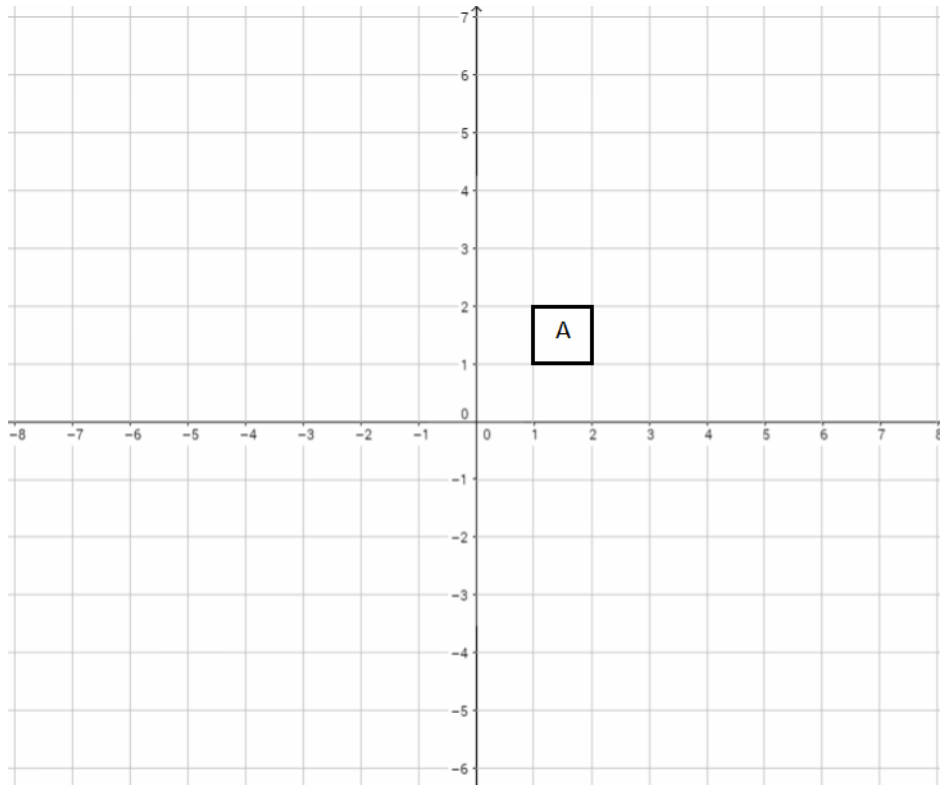
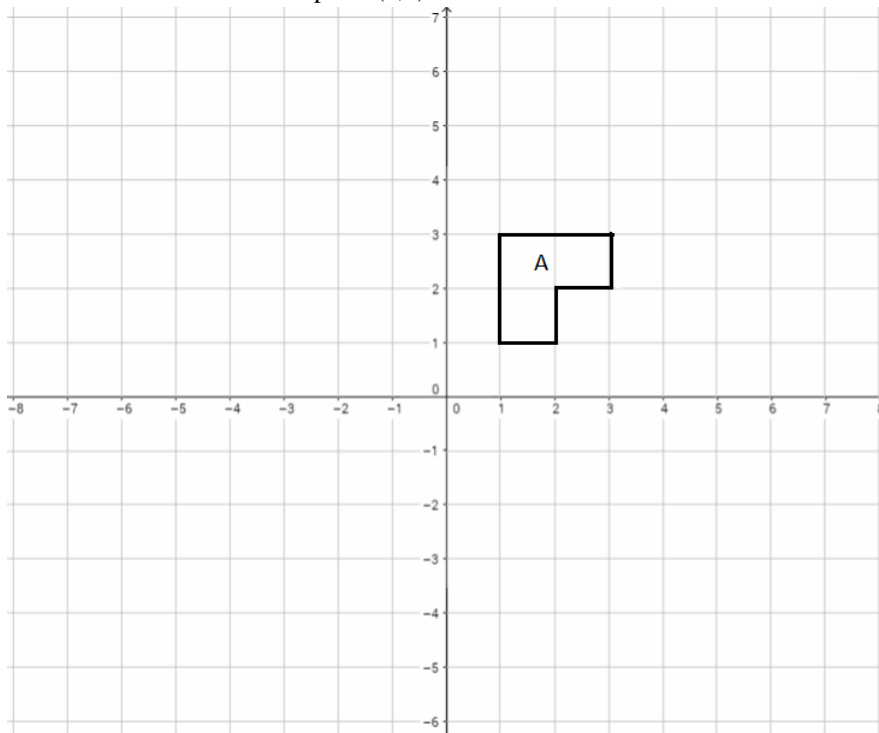


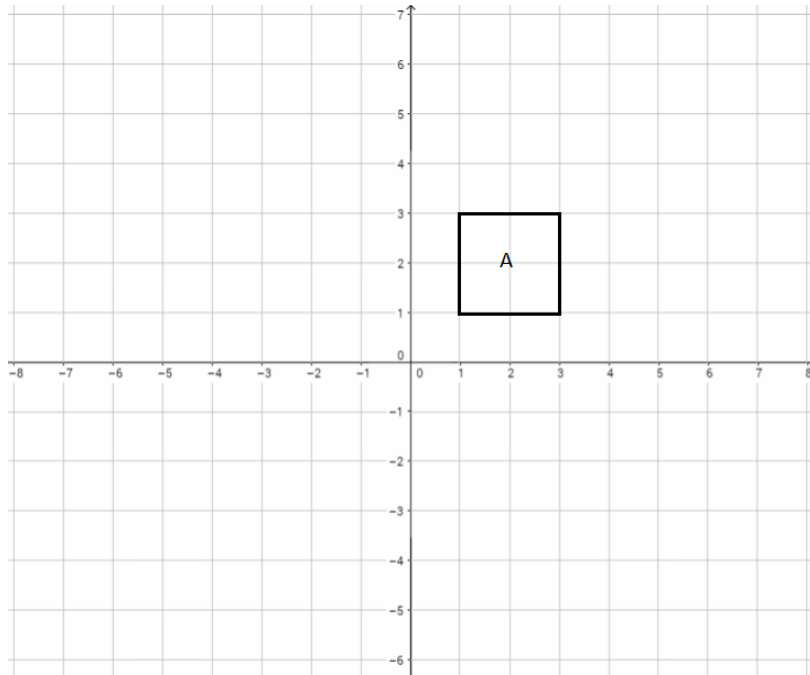
Enlargements – www.m4ths.com – If the shape doesn't fit fully on the grid just draw as much as you can of it!



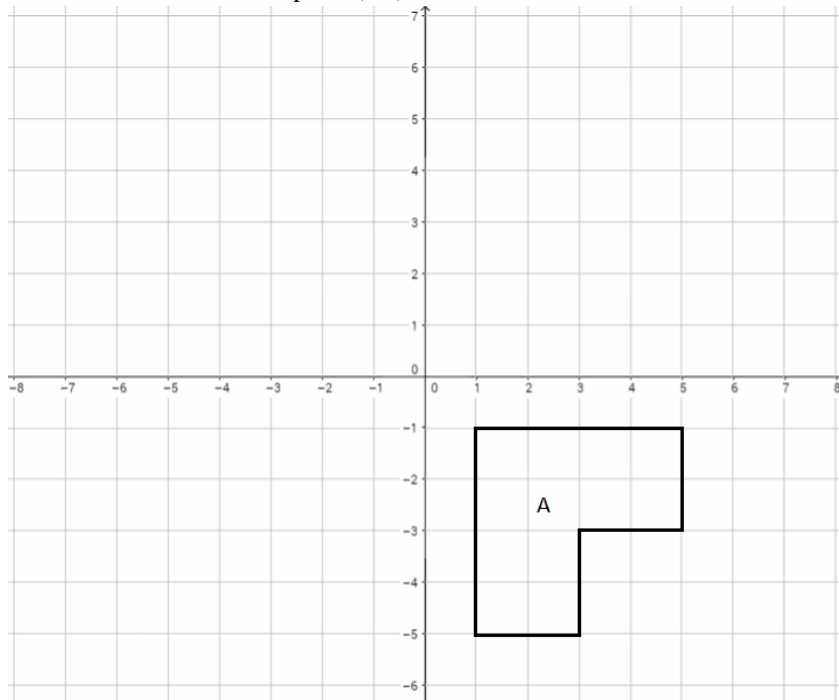
- (1) (a) Enlarge shape A by a scale factor of 2 about the point (0,0) and label it B.
- (b) Enlarge shape A by a scale factor of 3 about the point (1,0) and label it C.
- (c) Enlarge shape A by a scale factor of 4 about the point (3,1) and label it D.
- (d) Enlarge shape A by a scale factor of -2 about the point (0,0) and label it E.
- (e) Enlarge shape A by a scale factor of -3 about the point (3,0) and label it F.



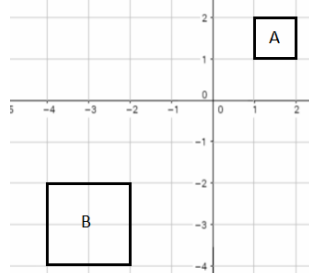
- (2) (a) Enlarge shape A by a scale factor of 2 about the point (1,0) and label it B.
- (b) Enlarge shape A by a scale factor of 2 about the point (0,1) and label it C.
- (c) Enlarge shape A by a scale factor of 3 about the point (0,-1) and label it D. Will it fit on the grid?
- (d) Enlarge shape A by a scale factor of 3 about the point (2,0) and label it E. Will it fit on the grid?
- (e) Enlarge shape A by a scale factor of -2 about the point (0,0) and label it F.
- (f) Enlarge shape A by a scale factor of -3 about the point (3,0) and label it G.



- (3) (a) Enlarge shape A by a scale factor of -1 about the point $(0,0)$ and label it B.
- (b) Enlarge shape A by a scale factor of $\frac{1}{2}$ about the point $(-1,-1)$ and label it C.
- (c) Enlarge shape A by a scale factor of $-\frac{1}{2}$ about the point $(-1,-1)$ and label it D.
- (d) Enlarge shape A by a scale factor of -2 about the point $(0,0)$ and label it E.
- (e) Enlarge shape A by a scale factor of 2 about the point $(0,0)$ and label it F.
- (f) Enlarge shape A by a scale factor of -2 about the point $(0,1)$ and label it G.
- (g) Enlarge shape A by a scale factor of -3 about the point $(1,1)$ and label it H.



- (3) (a) Enlarge shape A by a scale factor of $\frac{1}{2}$ about the point $(0,0)$ and label it B.
- (b) Enlarge shape A by a scale factor of $-\frac{1}{2}$ about the point $(0,0)$ and label it C.
- (c) Enlarge shape A by a scale factor of -1 about the point $(0,0)$ and label it D.



- (4) State the single transformation that takes (i) Shape A to B and (ii) B to A.