

DATE:____

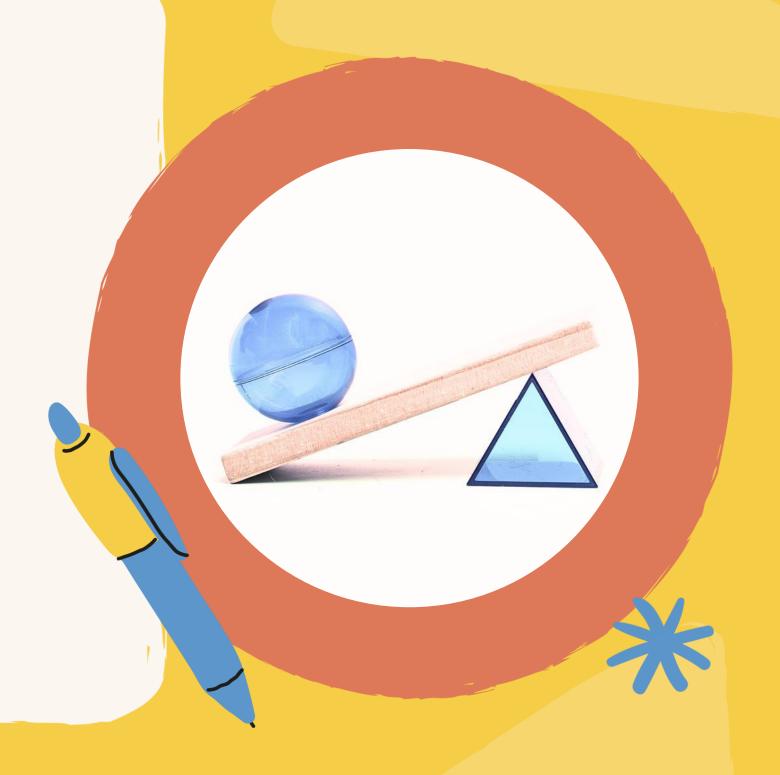
INDICATOR: TO RECOGNIZE WHEN AN ENLARGEMENT OR REDUCTION IS APPLIED, A SIMILAR FIGURE TO THE ORIGINAL IS OBTAINED.

Fifth grade Math





Let's watch the next video



Activity

Let's make an enlargement

Draw the first quadrant
 20 units x 20 units.

1) Graph a square of 4 units A(2,2) B(2,6) C(6,6) D(6,2) and enlarge it by a scale factor of 3. Write below the new ordered pairs.

A'(8,2) B'(8,14) C'(20,14) D'(20,2)

2) Graph a rectangle in the Cartesian plane of 9 units base and 6 units height

E(3,18) F(3,12) G(12,12) H(12,18)

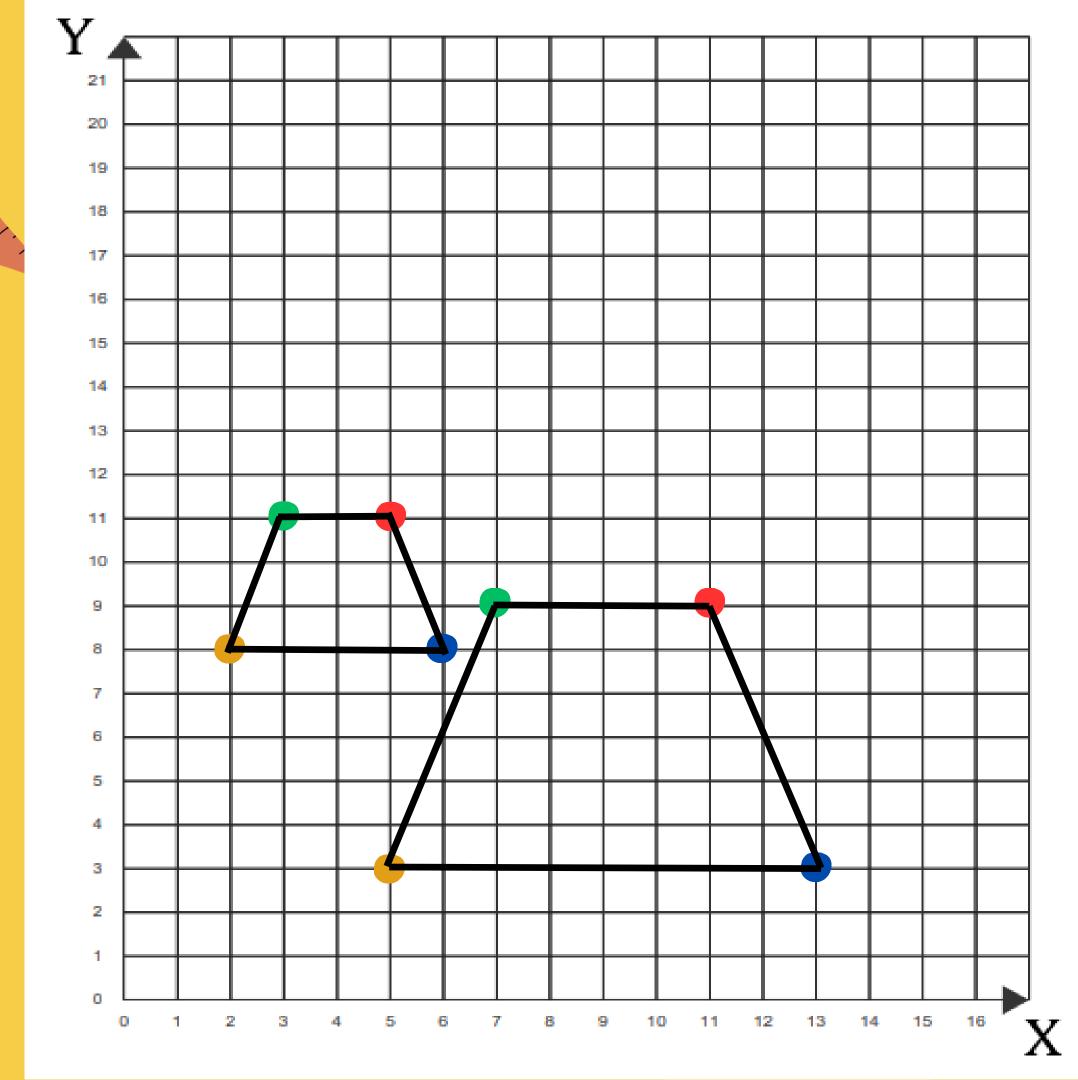
and reduce it by a scale factor of 1/3. Write below the new ordered pairs.

E'(1,6) F'(1,4) G'(4,4) H'(4,6)



Activity

3) Graph a trapezium in the Cartesian plane with parallel sides of 8 and 4 units, 6 units height, and reduce it by a scale factor of 1/2. Write below the ordered pairs.

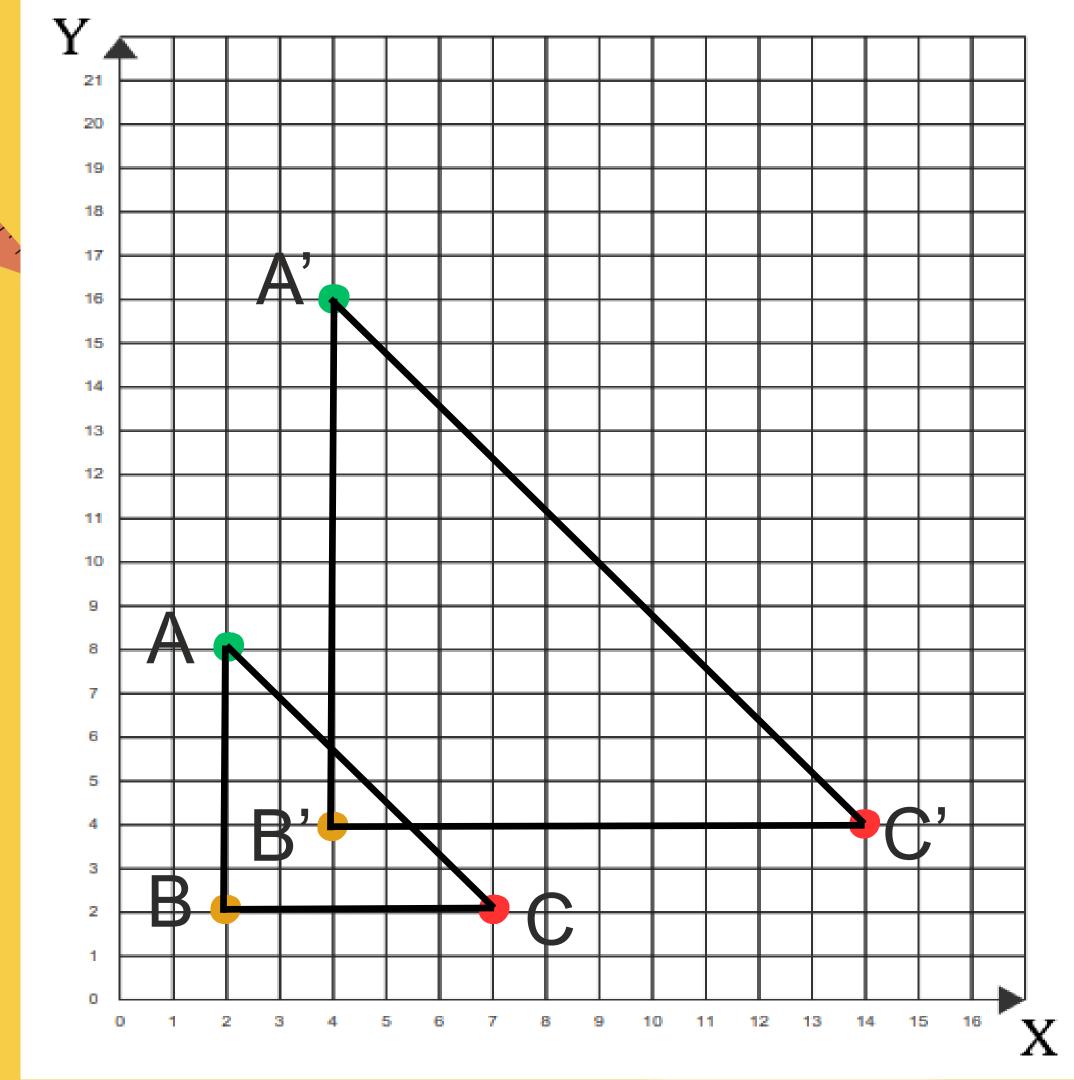


Activity

4) Graph a right triangle in the Cartesian plane of 5 units base and 6 units height and enlarge it by a scale factor of 2. Write below the ordered pairs.

$$A=(\underline{2},\underline{2}); B'=(\underline{2},\underline{8}); C'=(\underline{7},\underline{2})$$

$$A'=(4,4); B'=(4,16); C'=(14,4)$$





WRAP-UP!

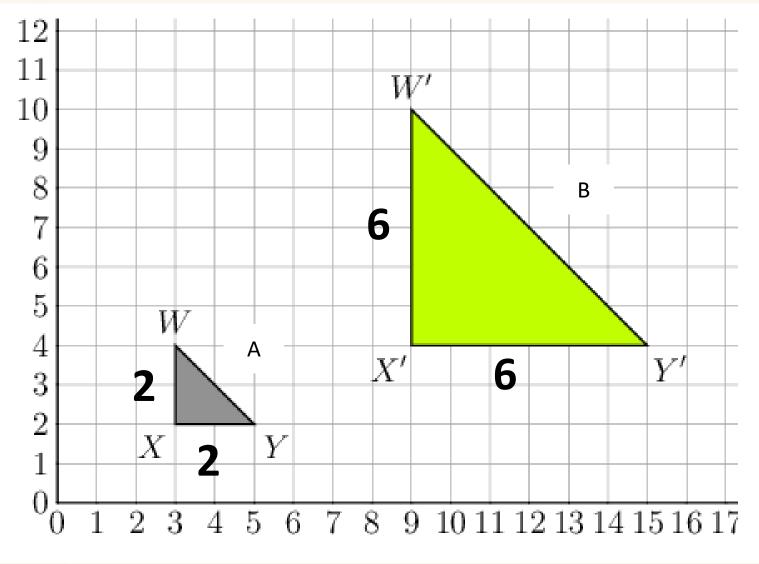


What is the scale factor of the enlargement of shape A to

shape B?

$$2 \times 3 = 6$$

Scale factor = 3







SYNTHESIS

Fifth grade Math

Synthesis

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Congruent figures can be obtained through rigid transformations like <u>translations</u>, <u>rotations</u>, and <u>reflections</u>, maintaining size and shape.
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Similar figures can be obtained through dilations, where shapes maintain proportional dimensions but differ in size like enlargements and reductions
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