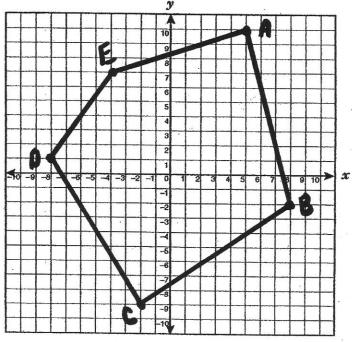
		0.
. Which of the following is not a characteristic of similar gures?	2. Are the figures below similar? Explain.	8A
A. Proportional sides B. Equal angle measurements C. Same shape D. Congruent side lengths		Our I
		Yav
A B A B B A B B B B B B B B B B B B B B		· vocation
. Which of the figures is similar to ne one below?	C	
i. If the figures below are proportional, what is true about the ingles of the smaller figure?		

- 1. A point P has coordinates (-8, -2). What are its new coordinates after reflecting point P across the x-axis?
- 3. Pentagon ABCDE is dilated with the origin as the center of dilation by a scale factor of 3.5. What will be the dilated coordinate of point C?



- [A] (-7, -31.5)
- [B] (-5, -22.5)
- [C] (-9, -40.5)
- [D] (-1, -4.5)
- 4. A point Q with coordinates (-8, -6) is reflected across the y-axis. What are its new coordinates?
- 5. Write the translation of point P(2, -9) to point P'(0, -12).

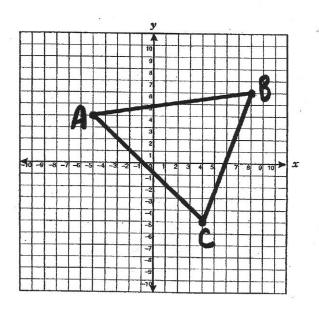
[A]
$$(x, y) \rightarrow (x-3, y-2)$$

[B]
$$(x, y) \rightarrow (x+3, y+2)$$

[C]
$$(x, y) \rightarrow (x+2, y+3)$$

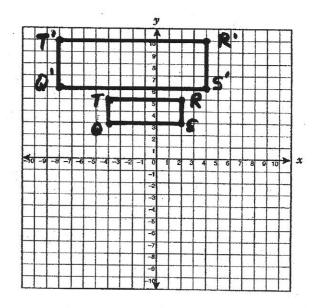
[D]
$$(x, y) \to (x-2, y-3)$$

6. Which of the following is a dilation of triangle ABC with center of dilation (0,0)?



- [A]A' (-2.5, 2) B' (8, 6) C' (2, -2.5)
- A' $\left(-\frac{5}{3}, \frac{4}{3}\right)$ B' $\left(\frac{8}{3}, 2\right)$ C' $\left(\frac{4}{3}, -\frac{5}{3}\right)$ [B]

- [C]
- A' (-1, 1) B' (2, 1.5) C' (1, -1.25)
- [D]
- A' (-2, 7) B' (10.5, -12.5) C' (-2, -1)
- 7. The coordinates of the preimage triangle DEF are D (- 4, 5), E (9, -2), F (0, -6). The coordinates of the image triangle D'E'F' are D'(-8, 10), E'(18, -4), F'(0, -12). What is the scale factor from the preimage to the image if the center of dilation is (0,0)?
 - [A] 2
- [B] 3
- [C] $\frac{1}{3}$ [D] $\frac{1}{2}$
- 8. Rectangle T'R'S'Q' is the dilation of rectangle TRSQ. What is the scale factor of the dilation?
 - [A] 2
- [C] $\frac{1}{4}$ [D] $\frac{1}{2}$
- Diagram tollows on rext page ...



9. Your new T-shirt shrank slightly when it was washed and dried. What scale factor below could best describe this dilation?

[A] 1.3

[B] 0.9

[C] 0.4

[D] 2.0

10. Graph the triangle whose vertices have the coordinates given below. Then draw its dilation using a scale factor of 2 and the origin as the center of dilation. Be sure to label triangle RST and triangle R'S'T'.

