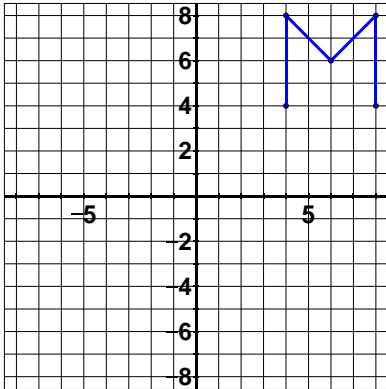
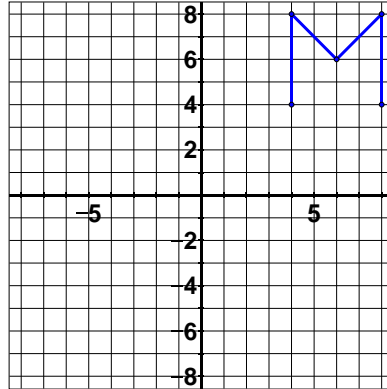


Perform the given dilation on each given pre-image with the given center of dilation.

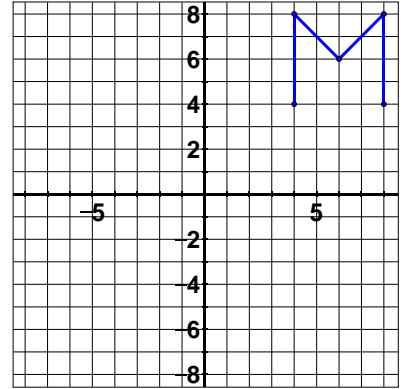
1. Dilate by $c = \frac{1}{4}$, center $(0,0)$



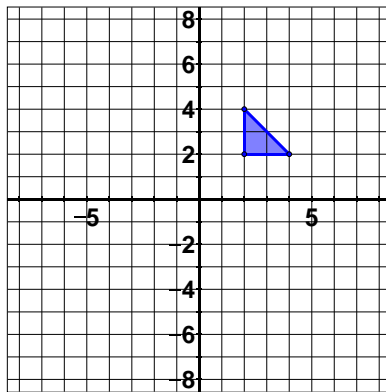
2. Dilate by $c = \frac{1}{2}$, center $(2,2)$



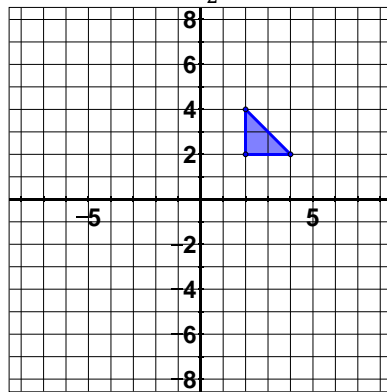
3. Dilate by $c = \frac{3}{4}$, center $(0,0)$



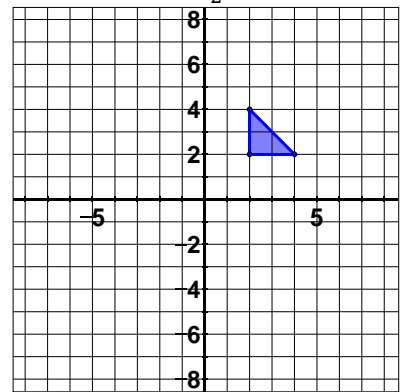
4. Dilate by $c = 2$, center $(6,4)$



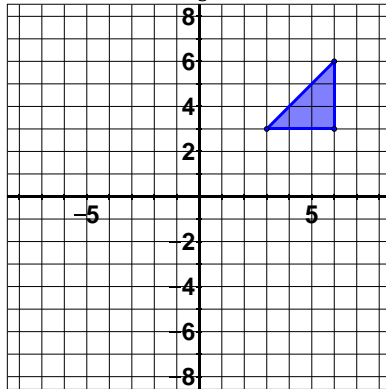
5. Dilate by $c = \frac{3}{2}$, center $(0,0)$



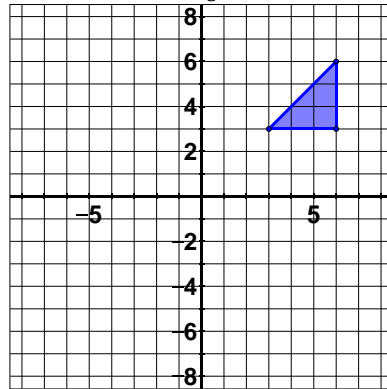
6. Dilate by $c = \frac{1}{2}$, center $(-6,2)$



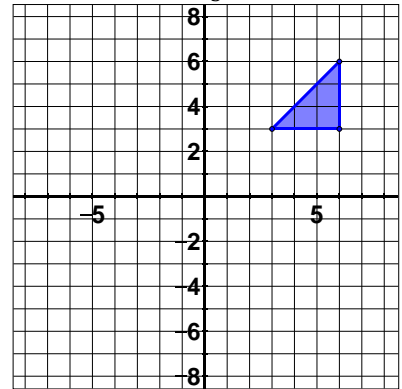
7. Dilate by $c = \frac{1}{3}$, center $(0,0)$



8. Dilate by $c = \frac{2}{3}$, center $(-3,-6)$



9. Dilate by $c = \frac{4}{3}$, center $(0,0)$

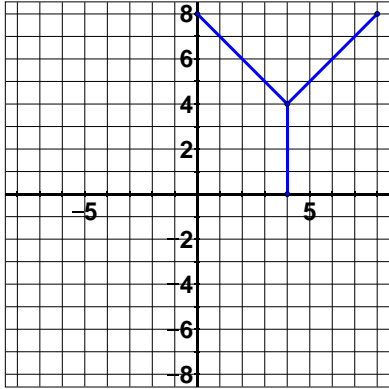


L1-S4

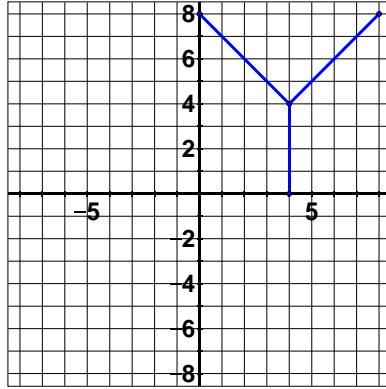
Dilation Practice

8.G.3

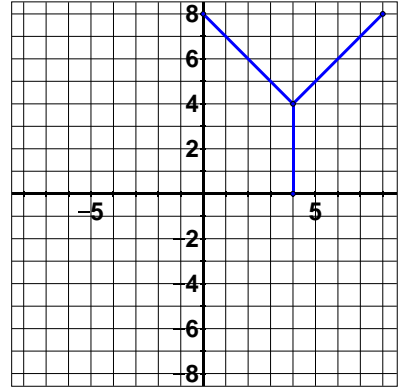
10. Dilate by $c = \frac{1}{4}$, center $(4,4)$



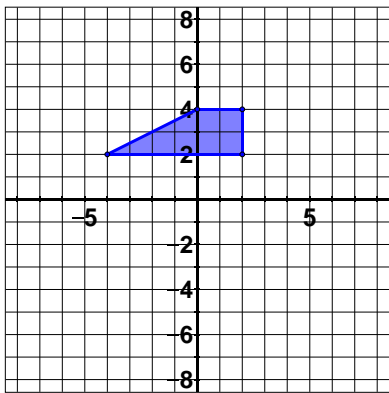
11. Dilate by $c = \frac{1}{2}$, center $(0,0)$



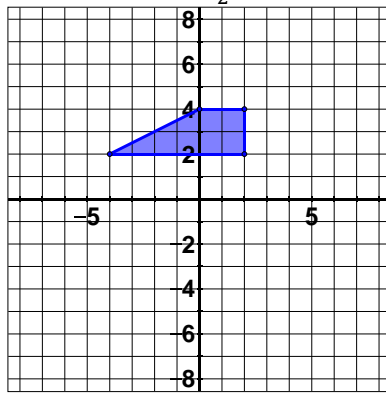
12. Dilate by $c = \frac{3}{4}$, center $(-4,8)$



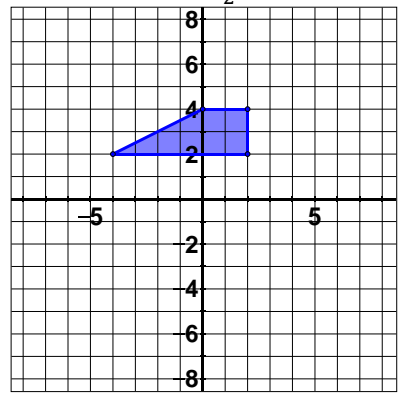
13. Dilate by $c = 2$, center $(0,0)$



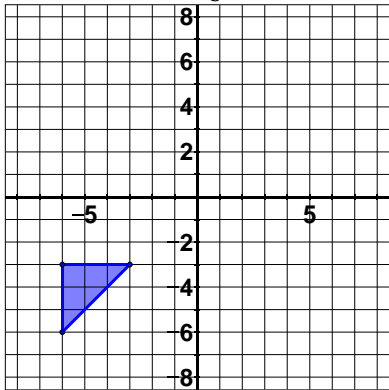
14. Dilate by $c = \frac{3}{2}$, center $(-4, -2)$



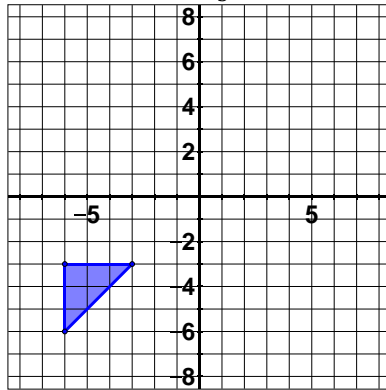
15. Dilate by $c = \frac{1}{2}$, center $(0,0)$



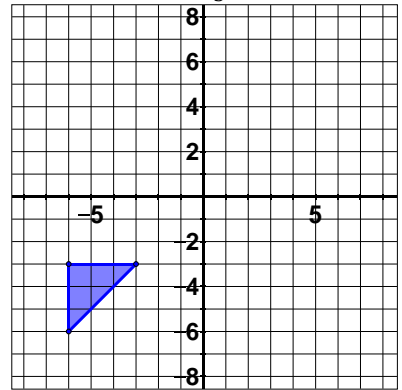
16. Dilate by $c = \frac{1}{3}$, center $(3,0)$



17. Dilate by $c = \frac{2}{3}$, center $(0,0)$

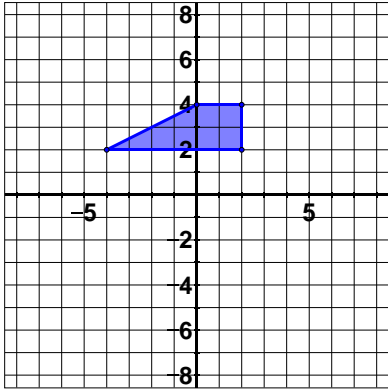


18. Dilate by $c = \frac{4}{3}$, center $(0, -6)$

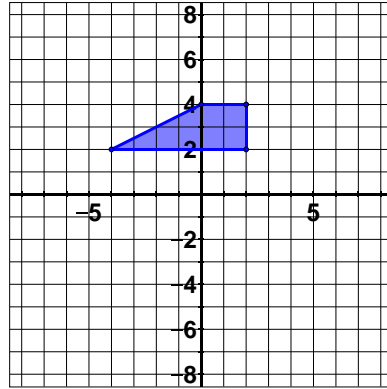


Describe in words the effect of the following dilations.

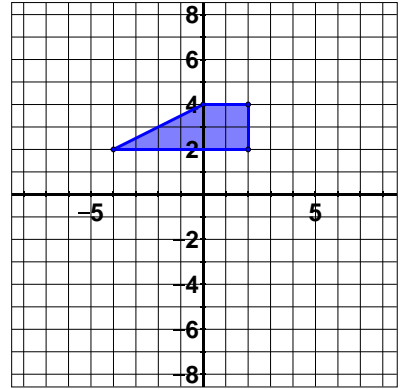
19. Dilate by $c = \frac{1}{2}$, center $(0,0)$



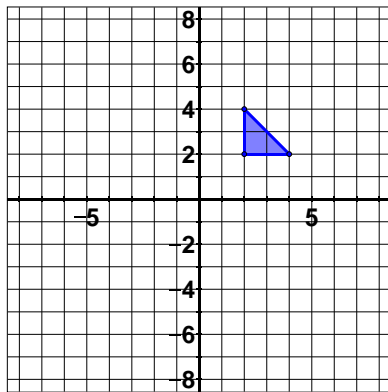
20. Dilate by $c = 2$, center $(2,2)$



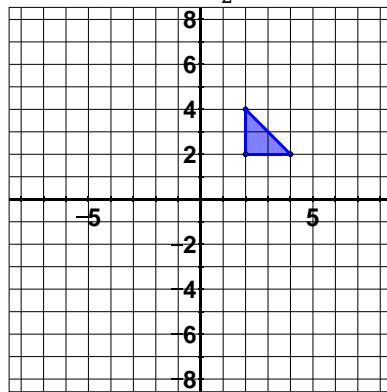
21. Dilate by $c = \frac{3}{2}$, center $(-6,4)$



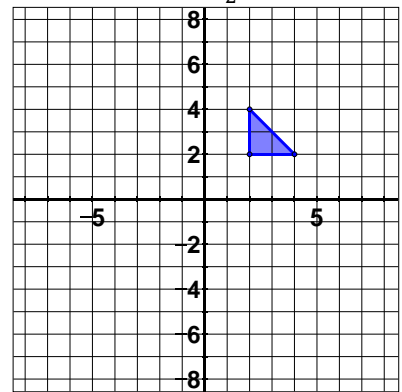
22. Dilate by $c = 3$, center $(4,4)$



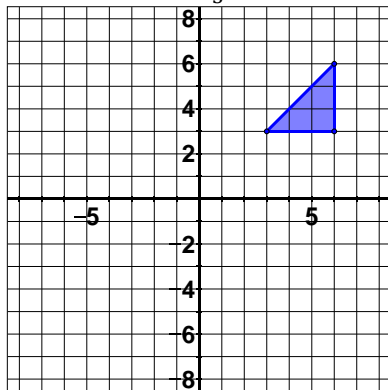
23. Dilate by $c = \frac{5}{2}$, center $(6,2)$



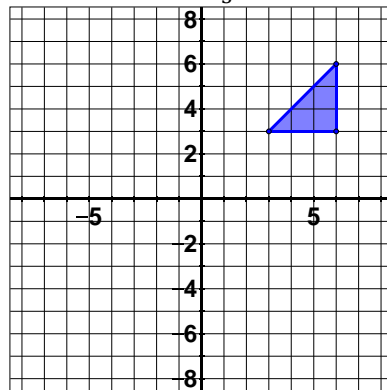
24. Dilate by $c = \frac{1}{2}$, center $(-8,8)$



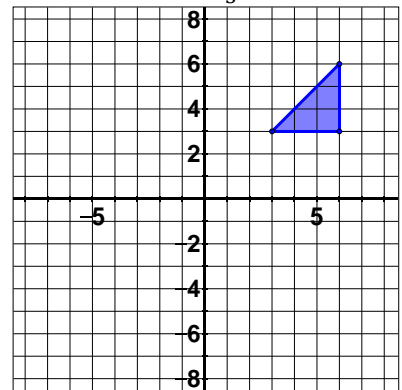
25. Dilate by $c = \frac{1}{3}$, center $(-6,3)$



26. Dilate by $c = \frac{2}{3}$, center $(3,-6)$



27. Dilate by $c = \frac{5}{3}$, center $(6,6)$

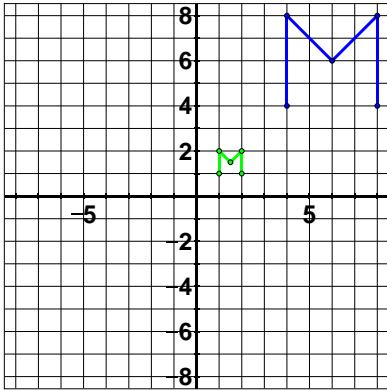


Dilation Practice

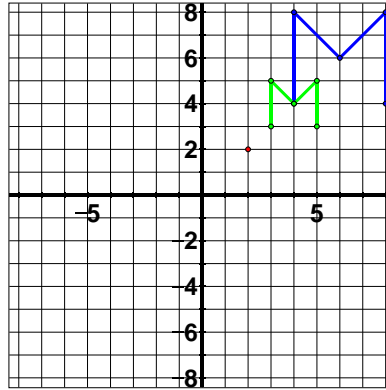
Dilation Practice: Answer Key

Perform the given dilation on each given pre-image. The images (answers) are lighter in green.

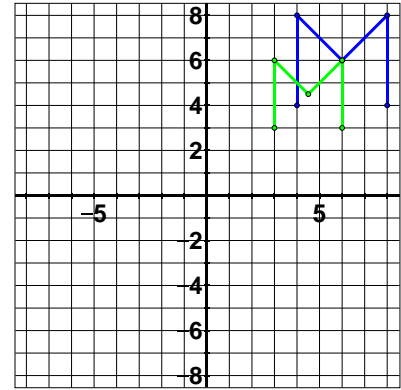
1. Dilate by $c = \frac{1}{4}$, center $(0,0)$



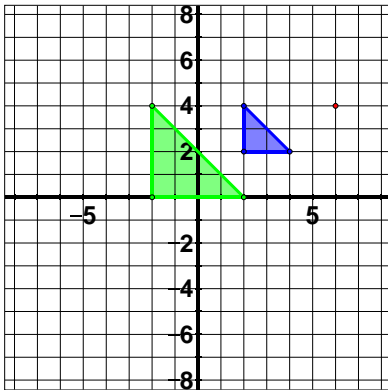
2. Dilate by $c = \frac{1}{2}$, center $(2,2)$



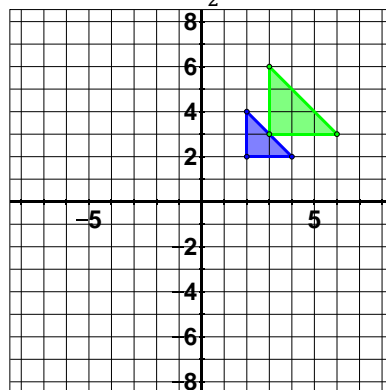
3. Dilate by $c = \frac{3}{4}$, center $(0,0)$



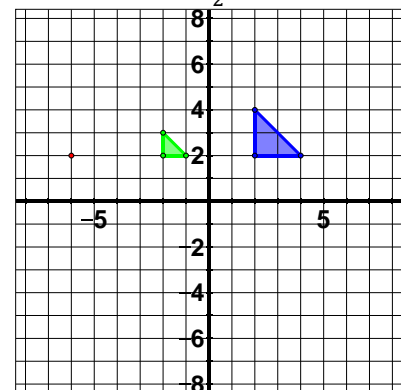
4. Dilate by $c = 2$, center $(6,4)$



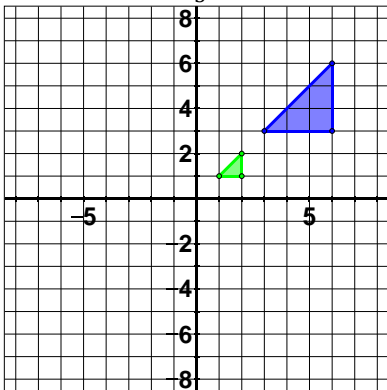
5. Dilate by $c = \frac{3}{2}$, center $(0,0)$



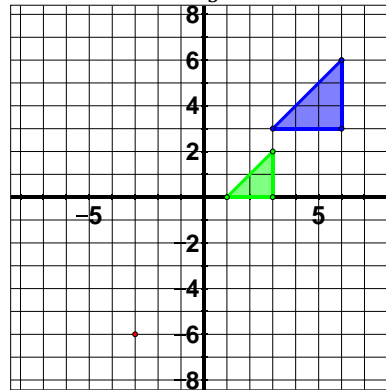
6. Dilate by $c = \frac{1}{2}$, center $(-6,2)$



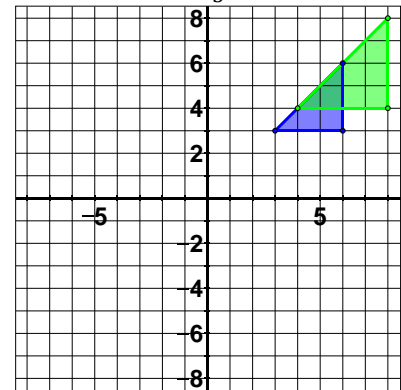
7. Dilate by $c = \frac{1}{3}$, center $(0,0)$



8. Dilate by $c = \frac{2}{3}$, center $(-3,-6)$



9. Dilate by $c = \frac{4}{3}$, center $(0,0)$

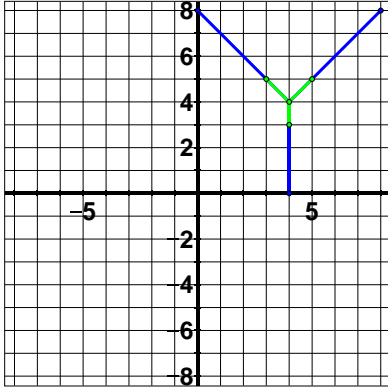


L1-S4

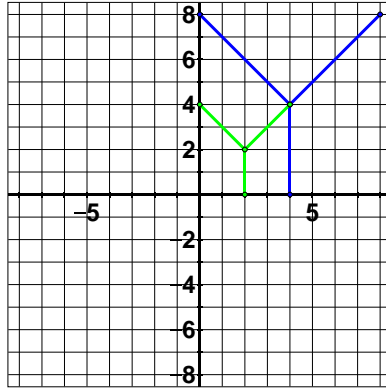
Dilation Practice

8.G.3

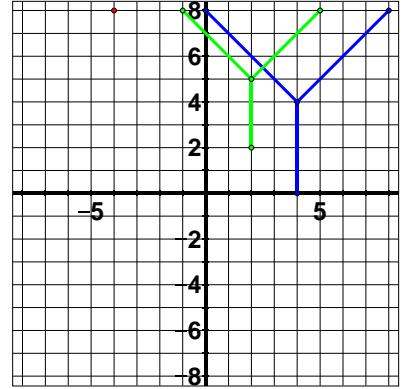
10. Dilate by $c = \frac{1}{4}$, center (4,4)



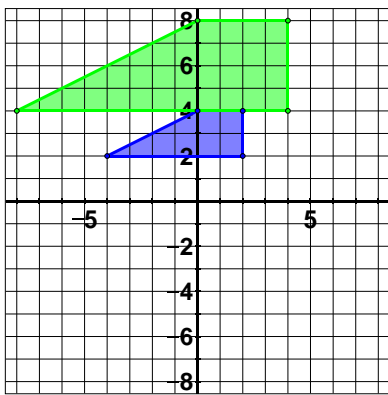
11. Dilate by $c = \frac{1}{2}$, center (0,0)



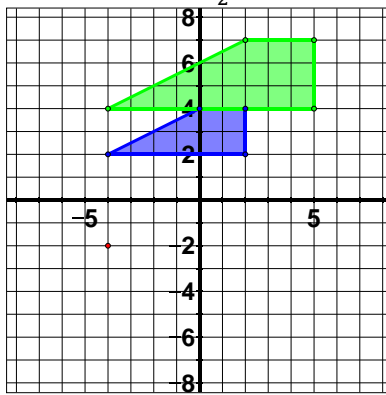
12. Dilate by $c = \frac{3}{4}$, center (-4,8)



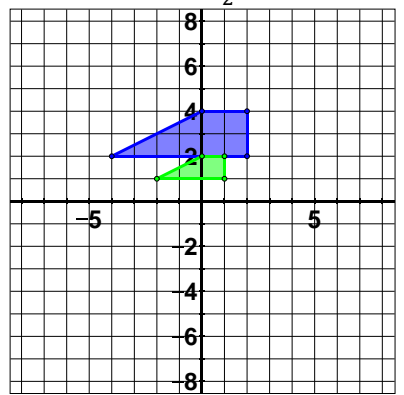
13. Dilate by $c = 2$, center (0,0)



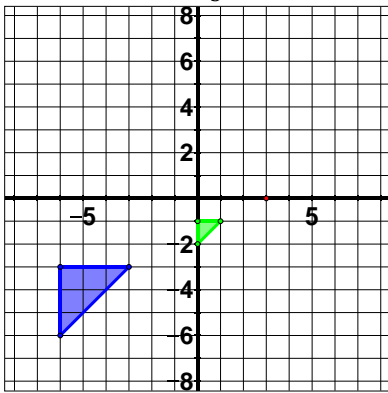
14. Dilate by $c = \frac{3}{2}$, center (-4,-2)



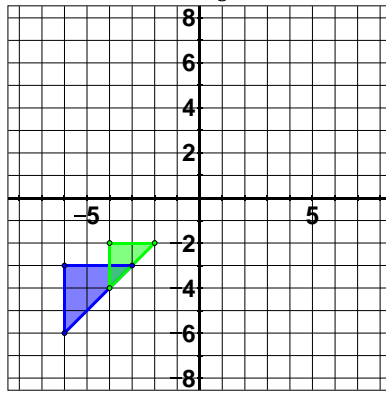
15. Dilate by $c = \frac{1}{2}$, center (0,0)



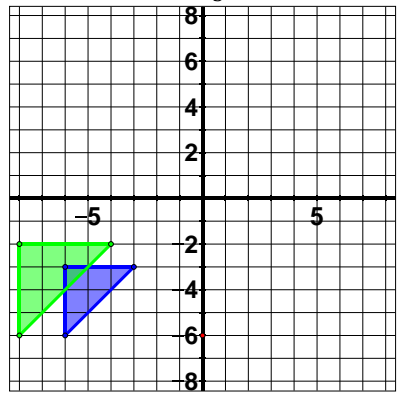
16. Dilate by $c = \frac{1}{3}$, center (3,0)



17. Dilate by $c = \frac{2}{3}$, center (0,0)

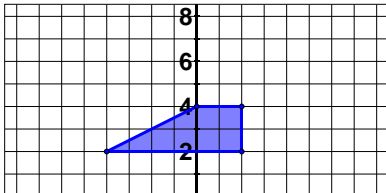


18. Dilate by $c = \frac{4}{3}$, center (0,-6)



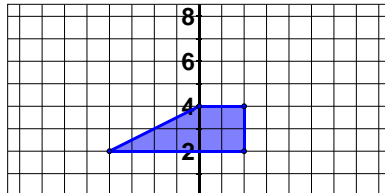
Describe in words the effect of the following dilations.

19. Dilate by $c = \frac{1}{2}$, center $(0,0)$



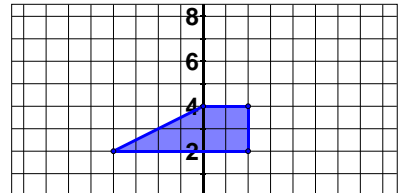
Possible response: The shape will shrink and get closer to $(0,0)$. It will be half the size and therefore similar.

20. Dilate by $c = 2$, center $(2,2)$



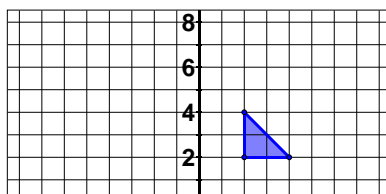
Possible response: The shape will enlarge and stay anchored at $(2,2)$. It will be twice the size and similar.

21. Dilate by $c = \frac{3}{2}$, center $(-6,4)$



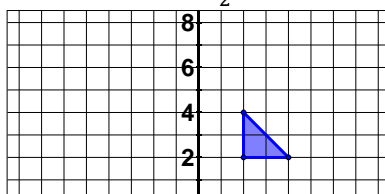
Possible response: The shape will enlarge and get move down and right. It will be 1.5 times the size and similar.

22. Dilate by $c = 3$, center $(4,4)$



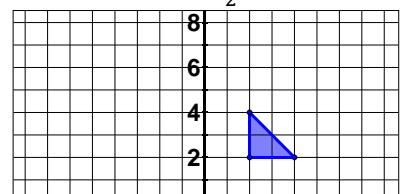
Possible response: The bottom right corner will move straight down. The shape will enlarge and be similar.

23. Dilate by $c = \frac{5}{2}$, center $(6,2)$



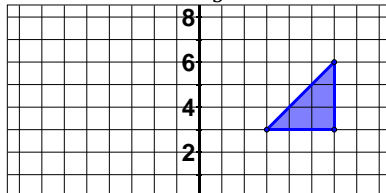
Possible response: The shape will enlarge to be mainly in quadrant II moving left.

24. Dilate by $c = \frac{1}{2}$, center $(-8,8)$



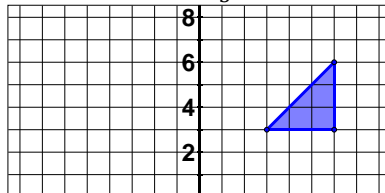
Possible response: The shape will shrink and move up and left. It will be half the size and similar.

25. Dilate by $c = \frac{1}{3}$, center $(-6,3)$



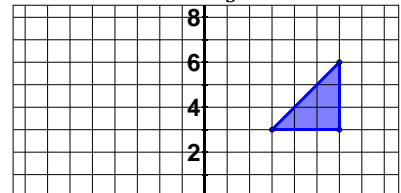
Possible response: The shape will shrink and move left. It will be a third of the size and similar.

26. Dilate by $c = \frac{2}{3}$, center $(3,-6)$



Possible response: The shape will shrink and move down. It will be a two-thirds of the size and similar.

27. Dilate by $c = \frac{5}{3}$, center $(6,6)$



Possible response: The shape will enlarge and stay anchored at $(6,6)$.