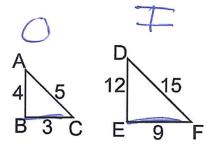
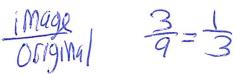
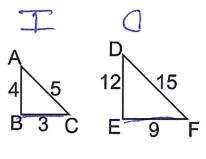
Scale Factor

1. In the diagram below, $\Delta\!D\!E\!F$ is the image of $\Delta\!A\!B\!C$ after a dilation. What is the scale factor of the dilation?

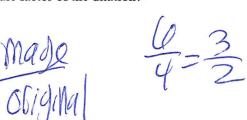


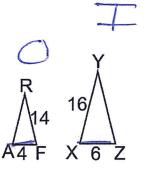
2. In the diagram below, $\Delta\!A\!B\!C$ is the image of $\Delta\!D\!E\!F$ after a dilation. What is the scale factor of the dilation?

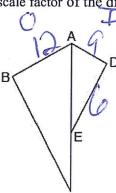




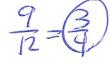
3. In the diagram below, ΔXYZ is the image of ΔARF after a dilation. What is the scale factor of the dilation?



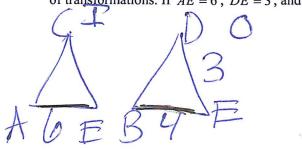




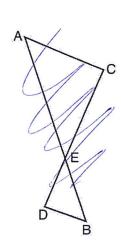
4. In the diagram below, $\triangle ADE$ is the image of $\triangle ABC$ after a reflection over the line AC followed by a dilation centered at point A. If $\overline{AB} = 12$, $\overline{DE} = 6$, and $\overline{AD} = 9$, what is the scale factor of the dilation?



5. In the diagram below, $\triangle ACE$ is the image of $\triangle BDE$ after a sequence of transformations. If $\overline{AE} = 6$, $\overline{DE} = 3$, and $\overline{EB} = 4$, what is the scale factor?

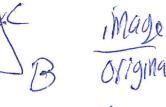






6. In the diagram below, $\triangle DCE$ is the image of $\triangle ACB$ after a sequence of transformations. If $\overline{AC} = 9$, $\overline{CE} = 3$, and $\overline{CD} = 6$, what is the scale factor?







A C E



7. After a dilation with center (0,0), the image of \overline{DB} is $\overline{D'B'}$. If DB = 4.5 and D'B' = 18, what is the scale factor of this dilation?

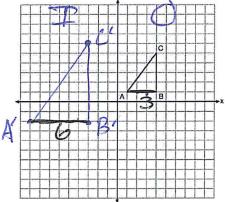
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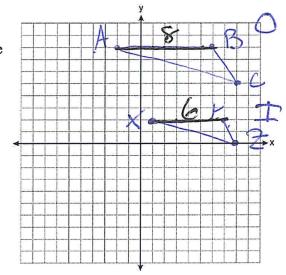
8. \overline{DR} is dilated centered at point D such that $\overline{DR} = 8$ and $\overline{D'R'} = 12$. What is the scale factor of the dilation?

<u>imago</u> Original 12 = 3

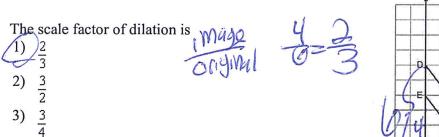
9. In the diagram below, $\triangle ABC$ has coordinates A(1,1), B(4,1), and C(4,5). The coordinates of its image after a sequence of transformations is A'(-9,-2), B'(-3,-2), and C'(-3,6). What is the scale factor?



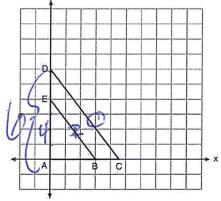
10. $\triangle ABC$ has coordinates A(-2,8), B(6,8), and C(8,5). The coordinates of $\triangle XYZ$, the image of $\triangle ABC$ after a sequence of transformations is X(1,2), Y(7,2), and Z(8,0). What is the scale factor?



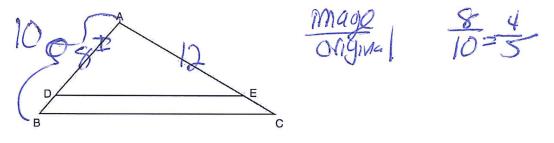
11. In the diagram below, $\triangle ABE$ is the image of $\triangle ACD$ after a dilation centered at the origin. The coordinates of the vertices are A(0,0), B(3,0), C(4.5,0), D(0,6), and E(0,4).



4)



12. In the diagram shown below, $\triangle ADE$ is the image of $\triangle ABC$ after a dilation of k centered at point A. If AB = 10, AD = 8, and AE = 12, what is the value of k?



13. In the diagram below, $\triangle ABC$ is the image of $\triangle DBE$ after a dilation centered at point A. If $\overline{AB} = 20$, $\overline{DE} = 8$, and $\overline{DB} = 10$, what is the scale factor?

