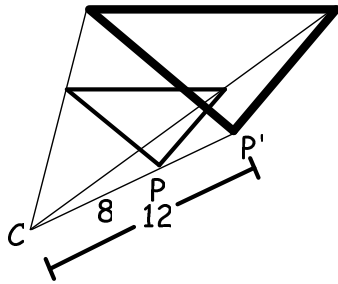
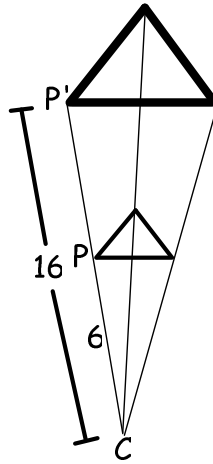


Identify the dilation and its scale factor. Bold \longrightarrow new.

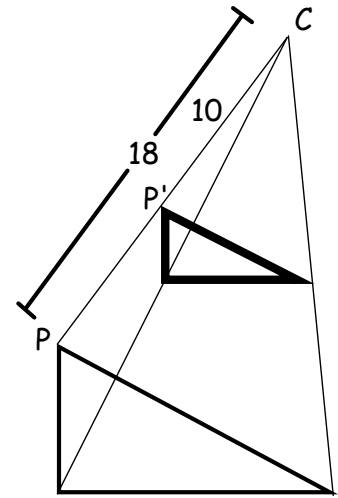
1.



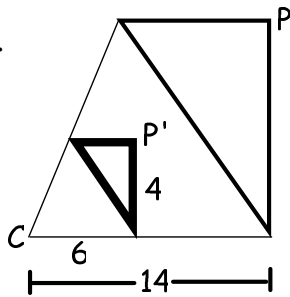
2.



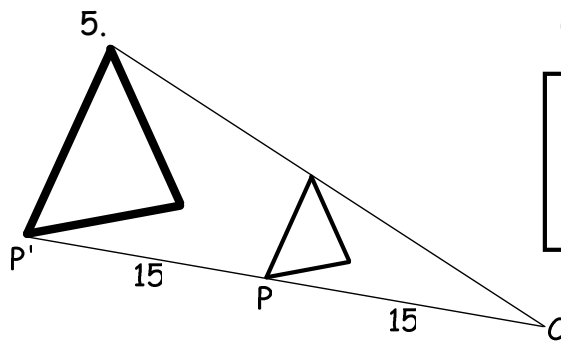
3.



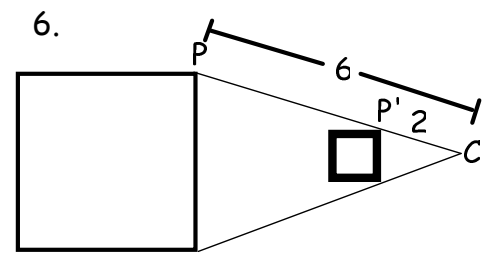
4.



5.

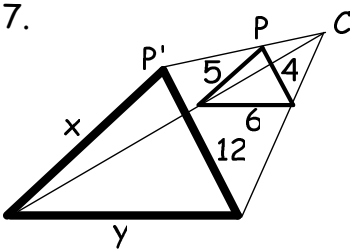


6.

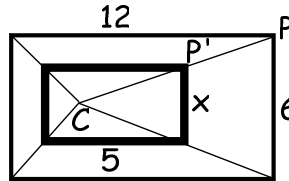


Identify the dilation, and find its scale factor. Then find the values of the variables.

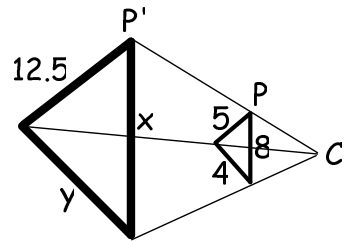
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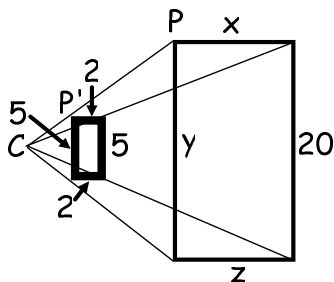
8.



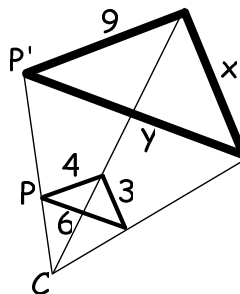
9.



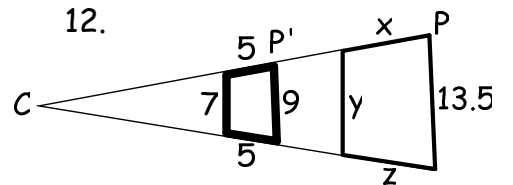
10.



11.



12.



Use the figure to complete the proportions.

1. $\frac{MN}{NO} = \frac{MJ}{?}$

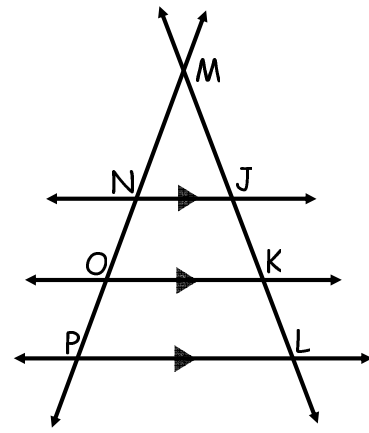
2. $\frac{JK}{KL} = \frac{?}{OP}$

3. $\frac{NJ}{OK} = \frac{MJ}{?}$

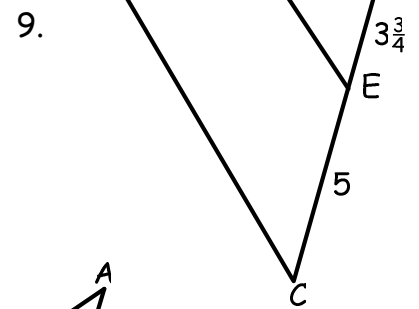
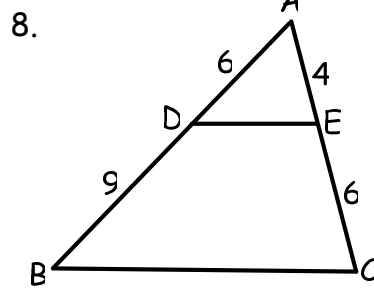
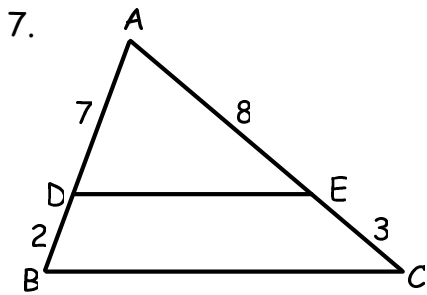
4. $\frac{PL}{NJ} = \frac{?}{MN}$

5. $\frac{OK}{PL} = \frac{MO}{?}$

6. $\frac{MJ}{ML} = \frac{?}{LP}$



Determine whether the given information implies $\overline{BC} \parallel \overline{DE}$. Explain.



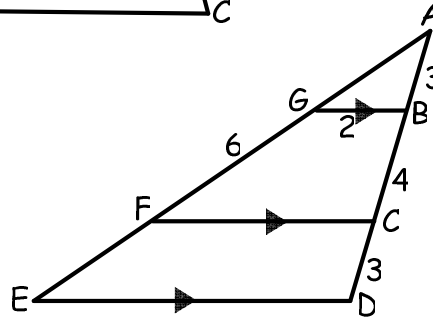
Determine the length of each segment.

10. \overline{AG}

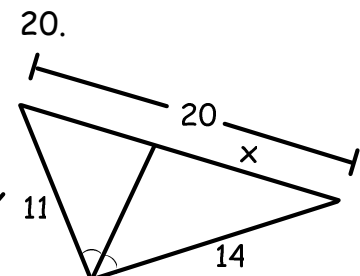
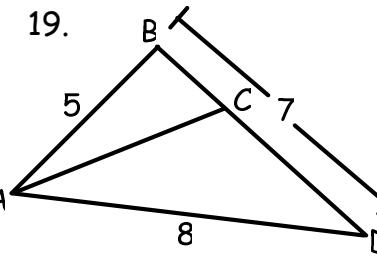
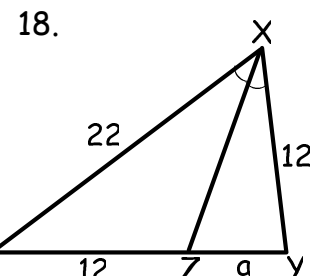
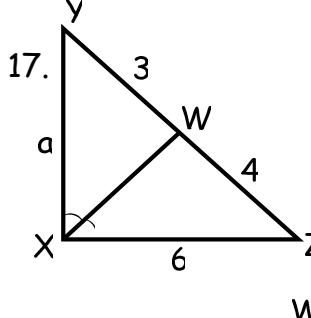
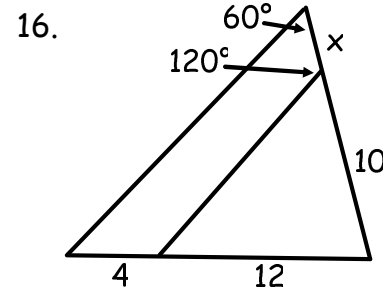
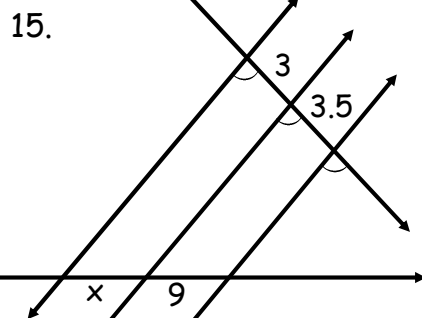
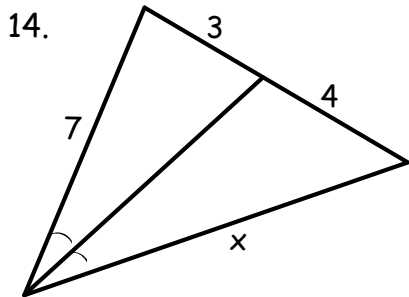
11. \overline{FC}

12. \overline{ED}

13. \overline{AE}

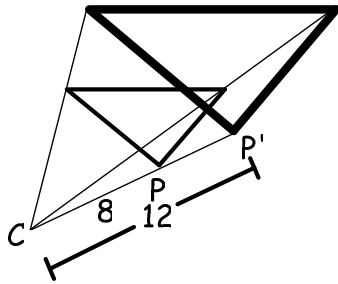


Find the value of the variable.



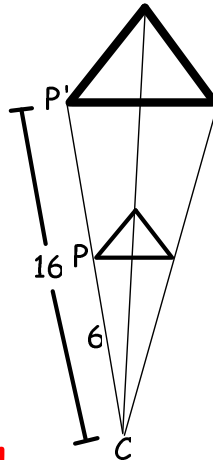
Identify the dilation and its scale factor. Bold → new.

1.



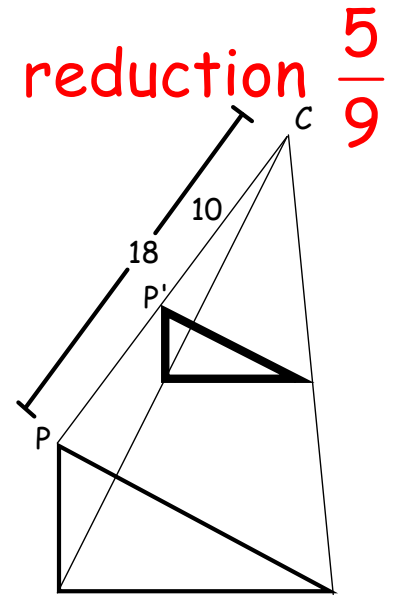
enlargement $\frac{3}{2}$

2.



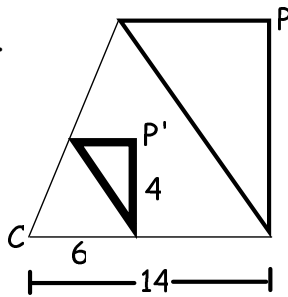
enlargement $\frac{8}{3}$

3.



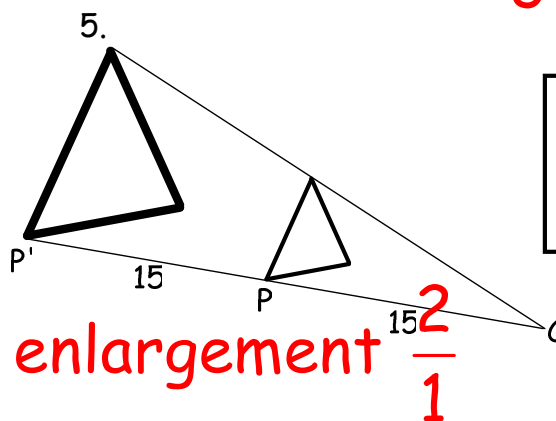
reduction $\frac{5}{9}$

4.



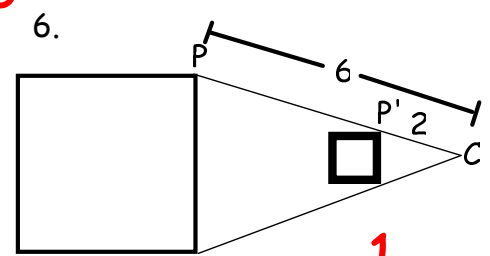
reduction $\frac{3}{7}$

5.



enlargement $\frac{2}{1}$

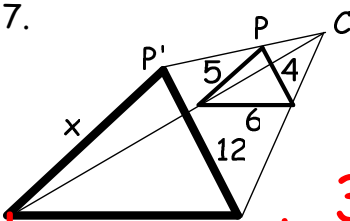
6.



reduction $\frac{1}{3}$

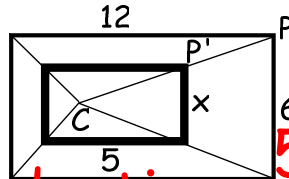
Identify the dilation, and find its scale factor. Then find the values of the variables.

7.



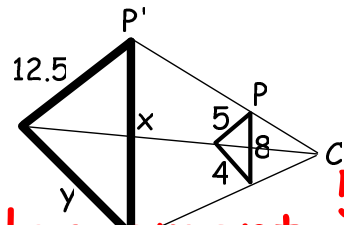
enlargement $\frac{3}{1}$
 $x = 15, y = 18$

8.



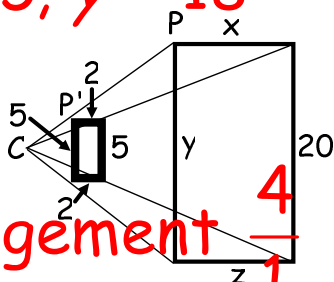
reduction $\frac{5}{12}$
 $x = 2.5$

9.



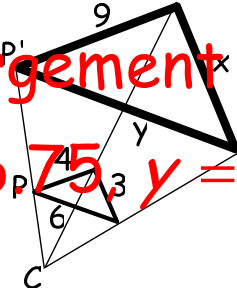
enlargement $\frac{5}{2}$
 $x = 20, y = 10$

10.



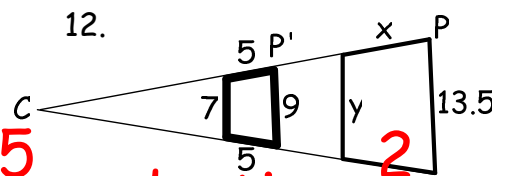
enlargement $\frac{4}{1}$
 $x = 8, y = 20, z = 8$

11.



enlargement $\frac{9}{4}$
 $x = 6.75, y = 13.5$

12.



reduction $\frac{2}{3}$
 $x = 7.5, y = 10.5, z = 7.5$

Use the figure to complete the proportions.

1. $\frac{MN}{NO} = \frac{MJ}{?}$ **JK**

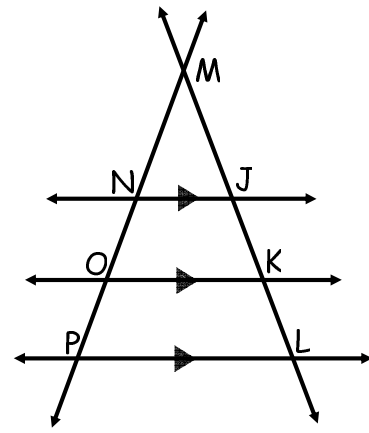
2. $\frac{JK}{KL} = \frac{?}{OP}$ **NO**

3. $\frac{NJ}{OK} = \frac{MJ}{?}$ **MK**

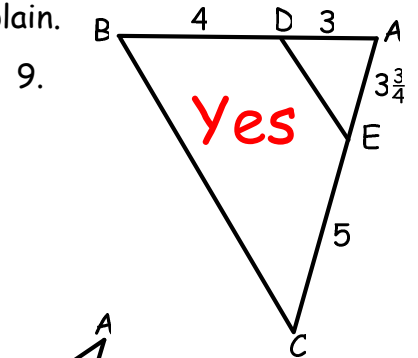
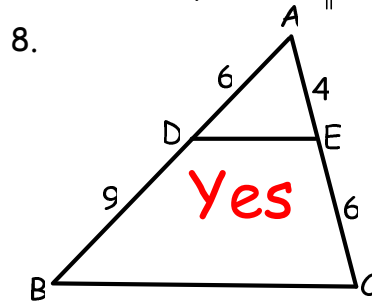
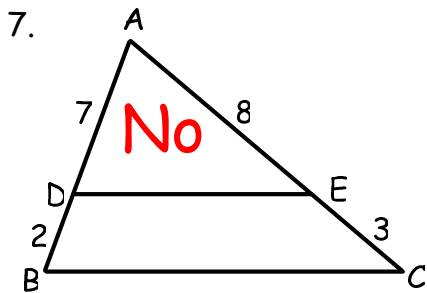
4. $\frac{PL}{NJ} = \frac{?}{MN}$ **MP**

5. $\frac{OK}{PL} = \frac{MO}{?}$ **MP**

6. $\frac{MJ}{ML} = \frac{?}{LP}$ **NJ**



Determine whether the given information implies $\overline{BC} \parallel \overline{DE}$. Explain.



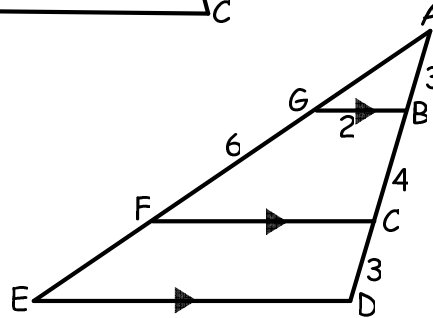
Determine the length of each segment.

10. \overline{AG} **4.5**

11. \overline{FC} **$4\frac{2}{3}$**

12. \overline{ED} **$6\frac{2}{3}$**

13. \overline{AE} **15**



Find the value of the variable.

