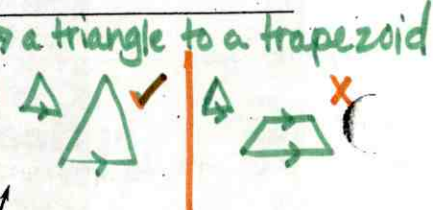


*you can break it apart*

**LESSON 6.6 Practice**  
For use with pages 396-403



*make sure you are comparing a triangle to triangle (small to large) and not*



Use the figure to complete the proportion.

1.  $\frac{GC}{CF} = \frac{GD}{DB}$

2.  $\frac{AF}{FC} = \frac{BE}{EB}$

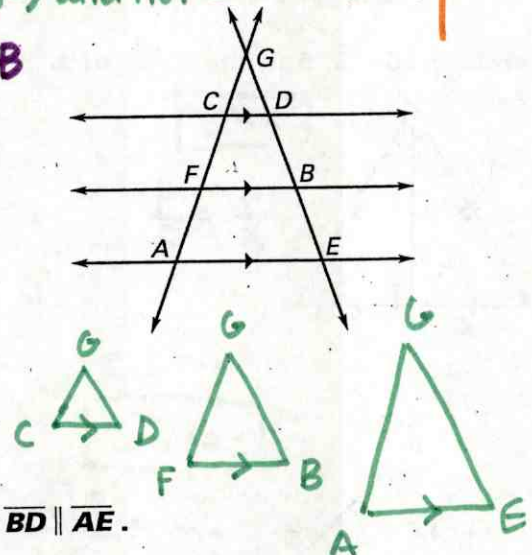
\* 3.  $\frac{CD}{FB} = \frac{GD}{GB}$

**NOT DB**

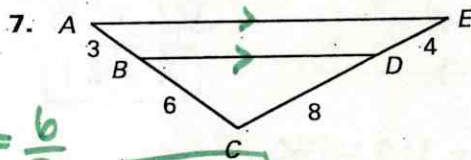
4.  $\frac{AE}{CD} = \frac{GE}{GD}$

5.  $\frac{FG}{AG} = \frac{FB}{AE}$

6.  $\frac{GD}{GE} = \frac{CD}{AE}$

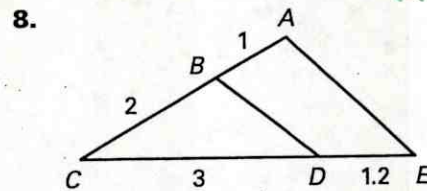


Use the given information to determine whether  $\overline{BD} \parallel \overline{AE}$ .



$\frac{1}{2} \frac{4}{8} = \frac{1}{2} \frac{6}{6}$   
 $\frac{1}{2} = \frac{1}{2}$

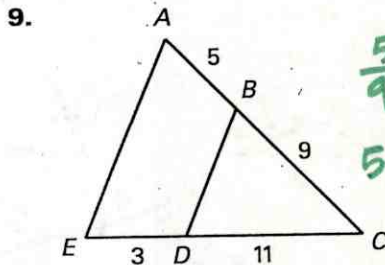
**yes**



$\frac{2}{1} = \frac{3}{1.2}$

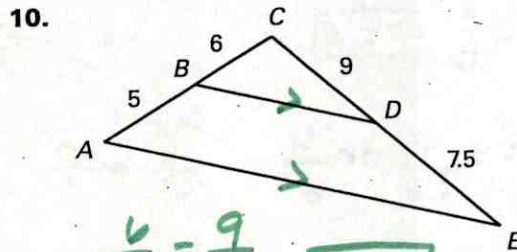
**NO**

$k=1.5$



$\frac{5}{9} = \frac{3}{11}$   
 $55 = 27$

**NO**



$\frac{6}{5} = \frac{9}{7.5}$  **yes**

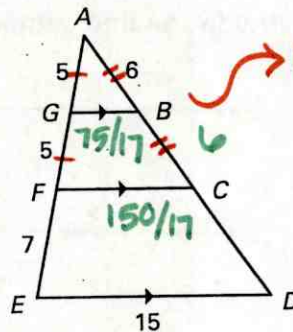
Determine the length of each segment.

11.  $\overline{BC}$   $\frac{5}{5} = \frac{6}{x}$   **$x=6$**

12.  $\overline{FC}$   $\frac{x}{15} = \frac{10}{17}$   $17x=150$   
 $x = \frac{150}{17}$

13.  $\overline{GB}$   $\frac{x}{15} = \frac{5}{17}$   $17x=75$   
 $x = \frac{75}{17}$

14.  $\overline{CD}$   $\frac{x}{6} = \frac{7}{5}$   $5x=42$   
 $x = \frac{42}{5}$



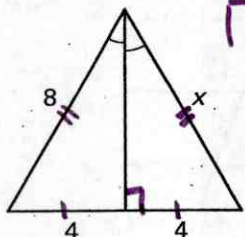
*midsegment*

**LESSON 6.6**

**Practice** *continued*  
For use with pages 396-403

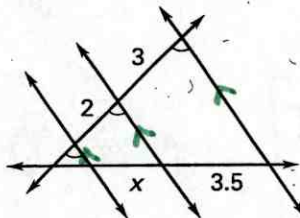
In Exercises 15-18, find the value of  $x$ .

15.



$x = 8$   
 $\frac{4}{x} = \frac{4}{8}$

16.



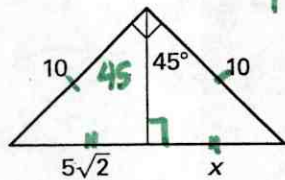
$\frac{3}{2} = \frac{3.5}{x}$

$3x = 7$

$x = \frac{7}{3}$

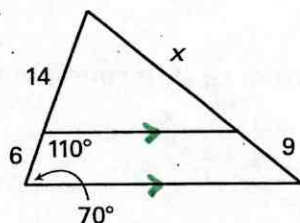
CCA

17.



$x = 5\sqrt{2}$   
 $\frac{x}{10} = \frac{5\sqrt{2}}{10}$

18.



$\frac{x}{9} = \frac{14}{7}$

$3x = 63$

$x = 21$

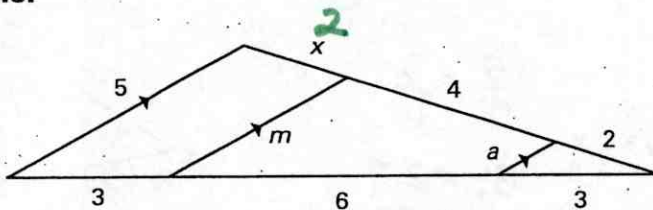
$70 + 110 = 180$

CCI

Find the value of the variable.

19.  $x$

$\frac{x}{4} = \frac{3}{6}$   $x = 2$



20.  $m$

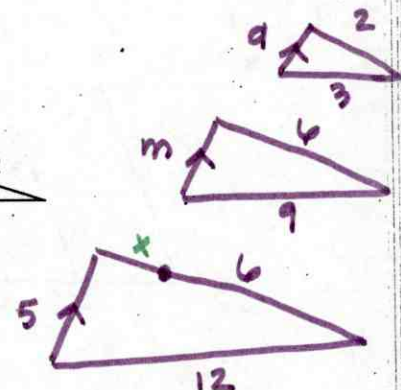
$\frac{m}{5} = \frac{9}{12}$  or  $\frac{6}{8}$

$m = \frac{15}{4}$

21.  $a$

$\frac{a}{5} = \frac{2}{8}$  or  $\frac{3}{9}$

$a = \frac{5}{4}$



Use construction tools to divide the line segment into the given number of equal parts.

22. 4



23. 3



24. 2

