

### 8.4 Proportionality Theorem CYU

Use when you get it right all by yourself

**S** Use when you did it all by yourself, but made a silly mistake

**H** Use when you could do it alone with a little help from teacher or peer

**G** Use when you completed the problem in a group

**X** Use when a question was attempted but wrong (get help)

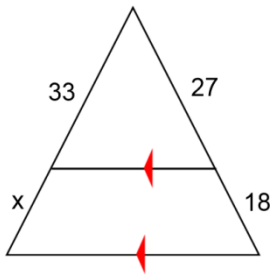
**N** Use when a question was not even attempted

CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Triangle Proportionality Theorem	1 - 3	4 - 6	
Triangle Angle-Bisector Theorem	10 - 11	12	
Two-Transversal Proportionality	7 - 9		

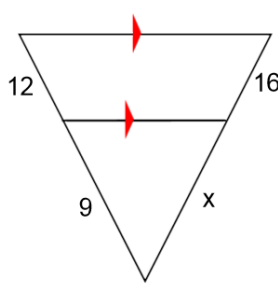
**Triangle Proportionality Theorem:** if a line parallel to one side of a triangle intersects the other two sides, then it divides those sides proportionally.

I. Find the value of  $x$ .

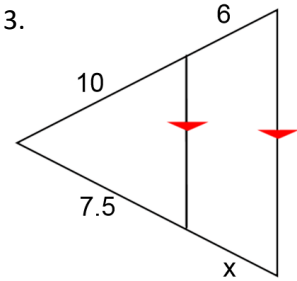
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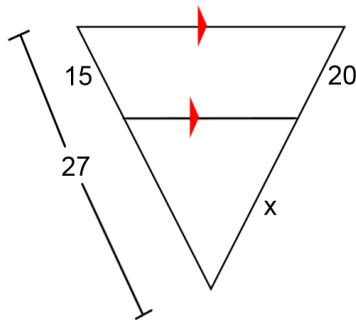
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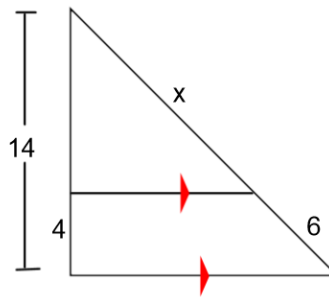
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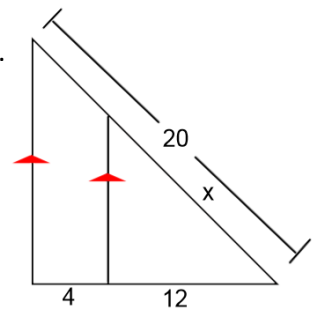
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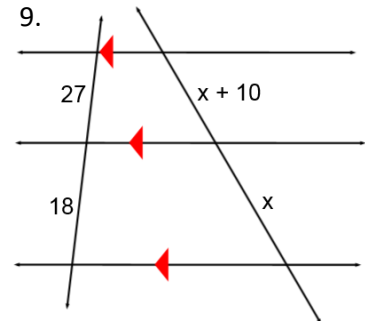
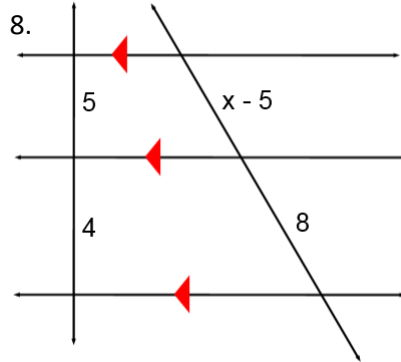
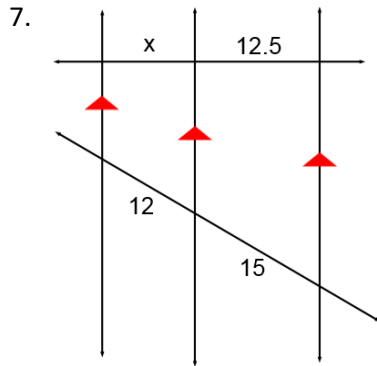


6.



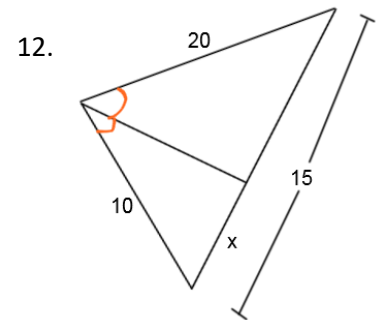
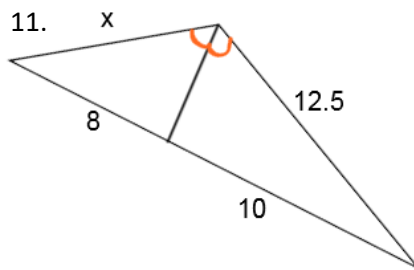
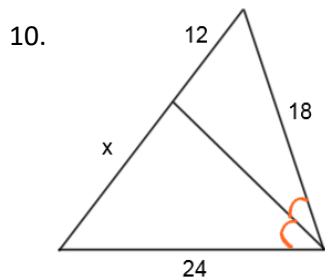
**Two-Transversal Proportionality:** If three parallel lines intersect two transversals, then they divide the transversals proportionally.

**II. Find the value of x.**



**Triangle Angle-Bisector Theorem:** If a ray bisects an angle of a triangle, then it divides the opposite side into segments proportional to the other two sides.

**III. Find the value of x.**



**CYU Reflection:** How far can you go: basic, intermediate, or advanced?

**Rate your mastery level!**

How confident are you with the skills this CYU covered? Circle the score you would give yourself.

1  
 2  
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Basic                      Intermediate                      Advanced      Solved ALL!