Name Key Date _____ Pd ___

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*

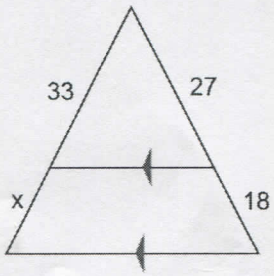
X *Use when a question was attempted but wrong (get help)*

N *Use when a question was not even attempted*

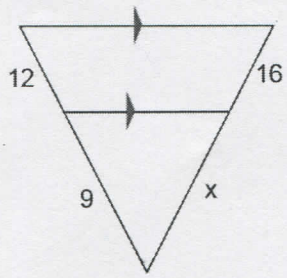
CONCEPTS	BASIC	INTERMEDIATE	ADVANCED
Triangle Proportionality Theorem	1 - 3	4 - 6	
Triangle Angle-Bisector Theorem	10 - 11	12	
Two-Transversal Proportionality	7 - 9		

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

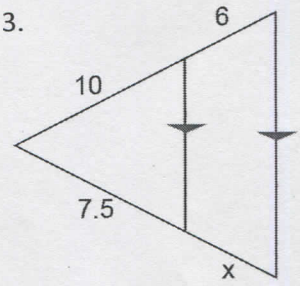
I. Find the value of x.

1. 

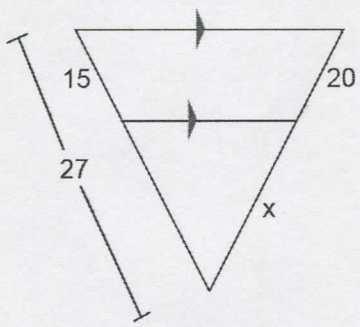
X=22

2. 

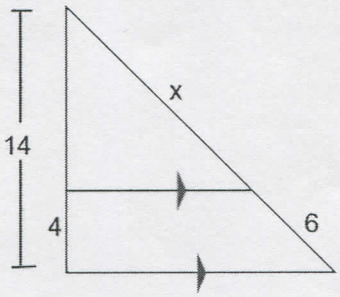
X=12

3. 

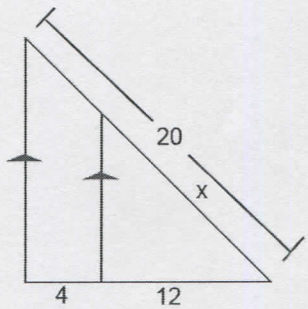
X=4.5

4. 

X=16

5. 

X=15

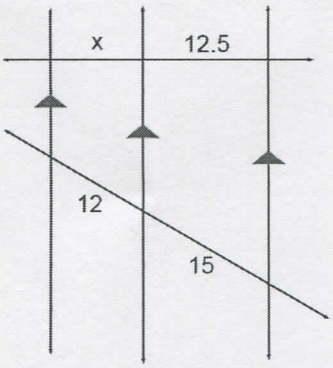
6. 

X=15

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

II. Find the value of x.

7.



X=10

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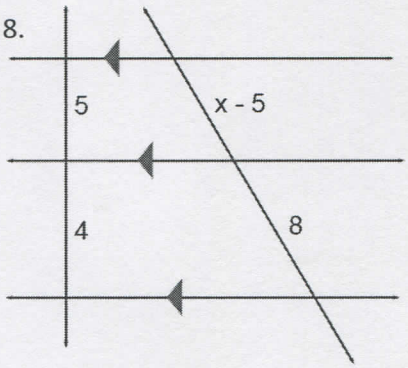

X=15

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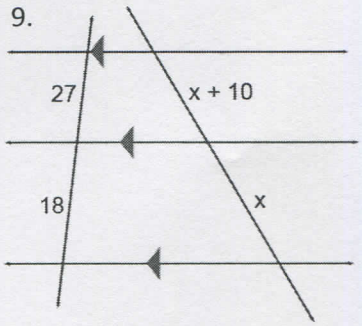
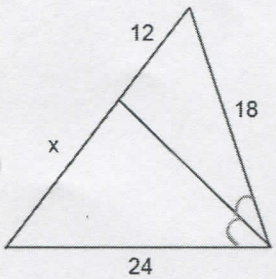


X=20

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

III. Find the value of x.

10.



X=16

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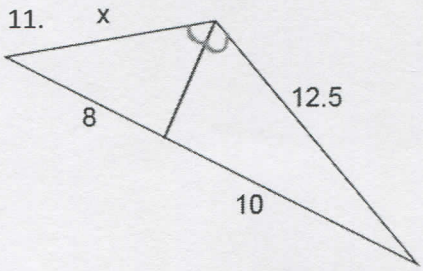
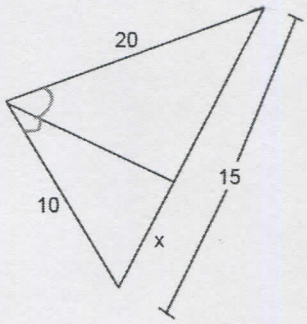


X=10

12.



X=5

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.