

READY, SET, GO!

Name _____

Period _____

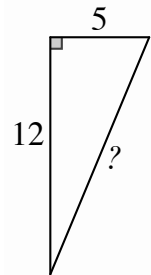
Date _____

READY

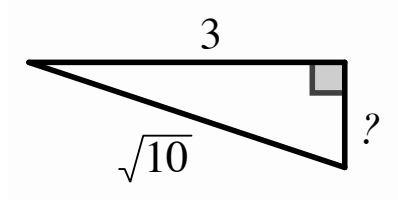
Topic: Pythagorean theorem and proportions in similar triangles.

Find the missing side in each right triangle

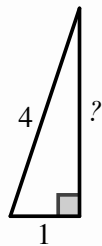
1.



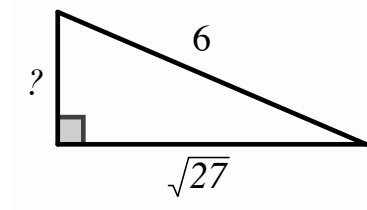
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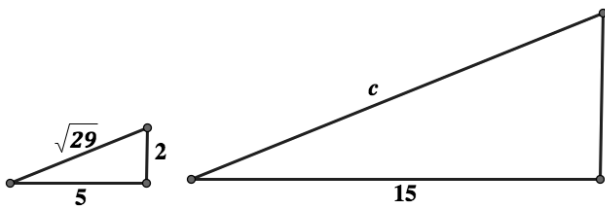


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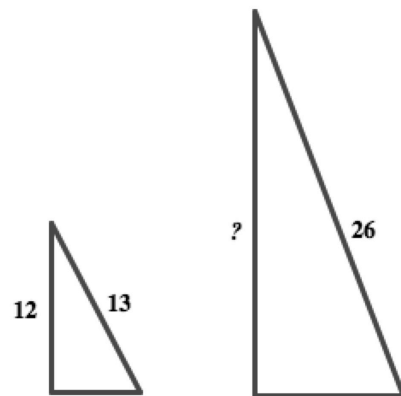


Create a proportion for each set of similar triangles. Then solve the proportion.

5.



6.



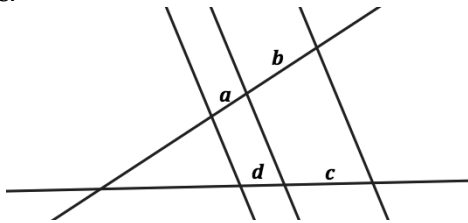
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SET

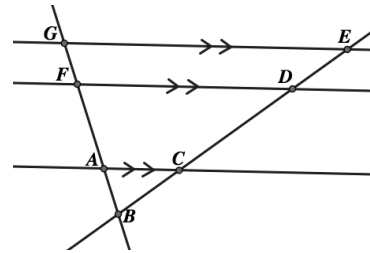
Topic: Proportionality of transversals across parallel lines

For questions 7 and 8, write three equal ratios.

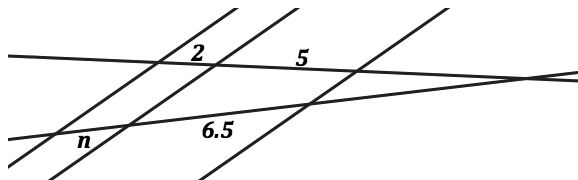
7. The letters a, b, c and d represent lengths of line segments.



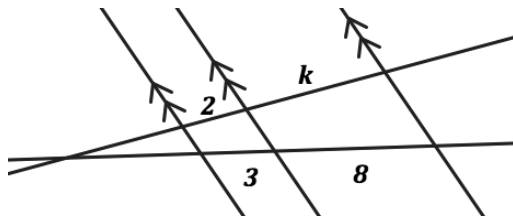
8.



9. Write and solve a proportion that will provide the missing length.

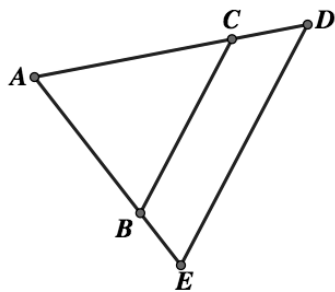


10. Write and solve a proportion that will provide the missing length.

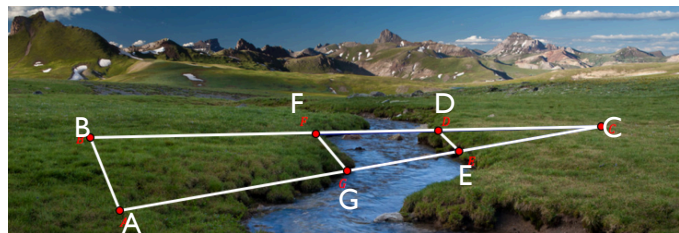


For questions 11 - 14 find and label the parallel lines. (i.e. $\overline{AB} \parallel \overline{CD}$) Then write a similarity statement for the triangles that are similar. (i.e. $\Delta ABC \sim \Delta XYZ$)

11.



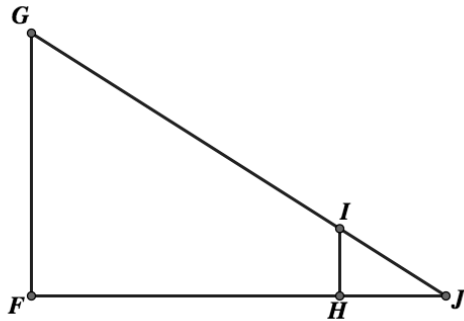
12.



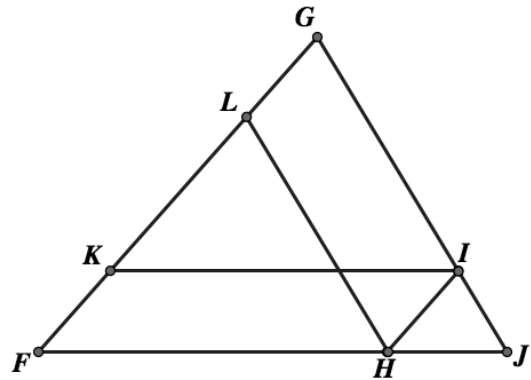
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13.



14.

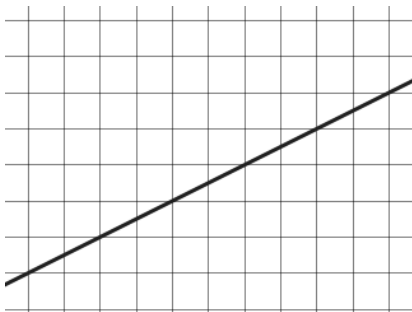


GO

Topic: Similarity in slope triangles

Each line below has several triangles that can be used to determine the slope. Draw in three slope-defining triangles of different sizes for each line and then create the ratio of rise to run for each.

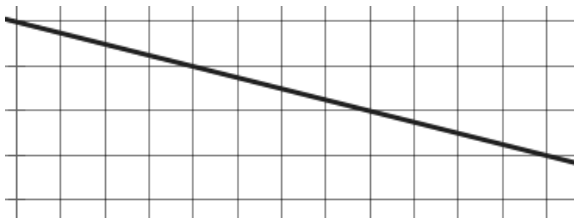
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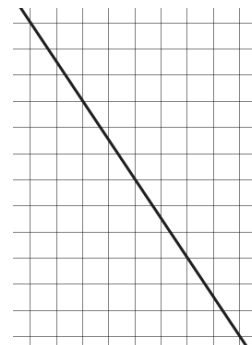
16.



17.



18.



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