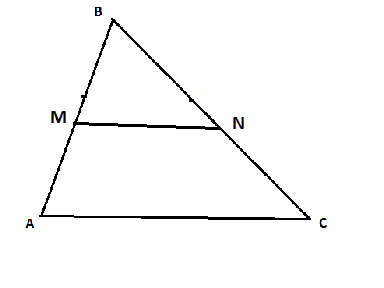
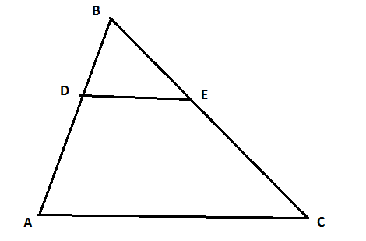
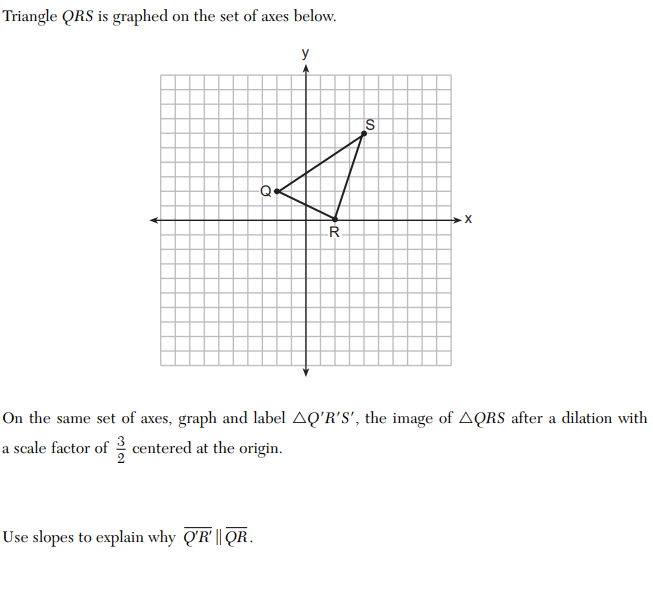
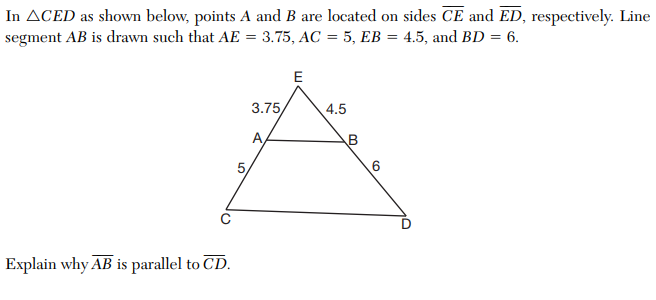
Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Proportions Involving Line Segments**

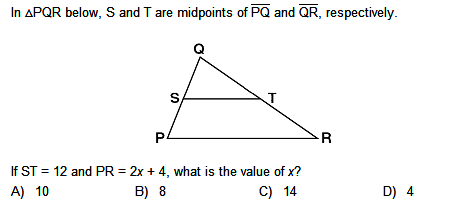
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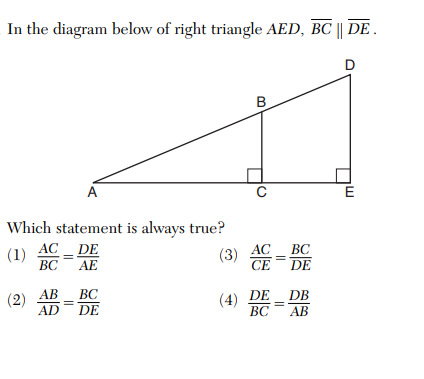




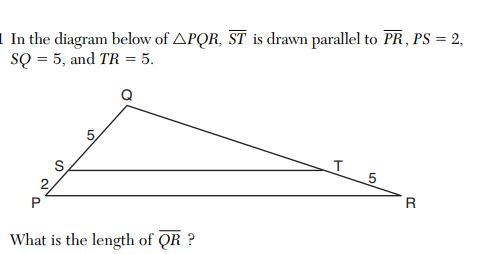
1.



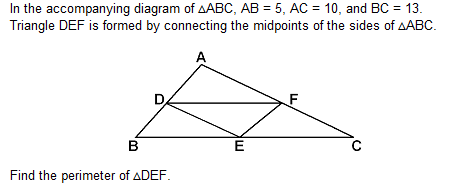
2.



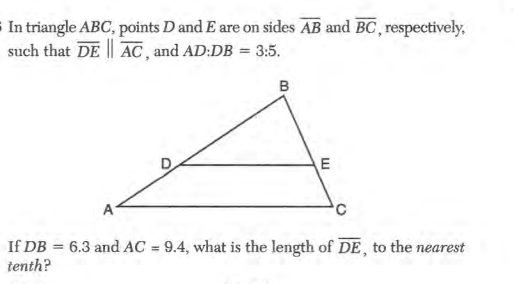
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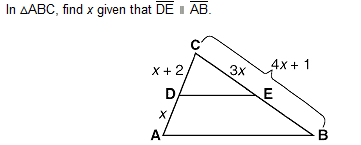
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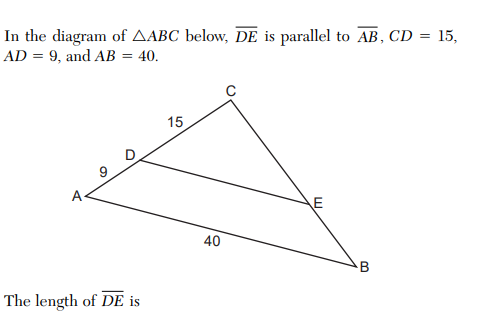
5.



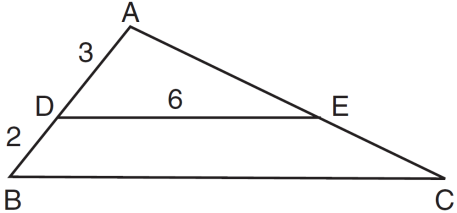
6.



7.



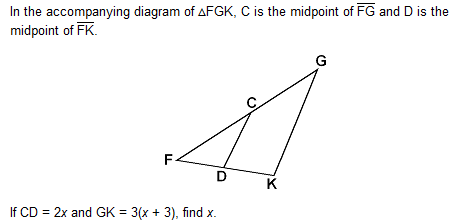
8. In the diagram of  below, , , , and .



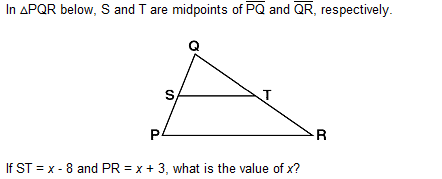
What is the length of ?

9. In , point *D* is on , and point *E* is on  such that . If , , and , what is the length of ?

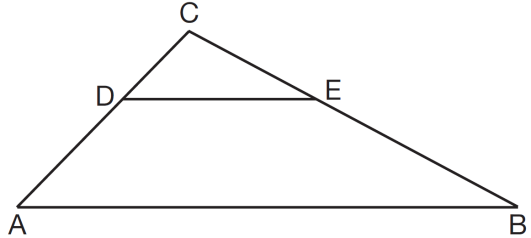
10.



11.

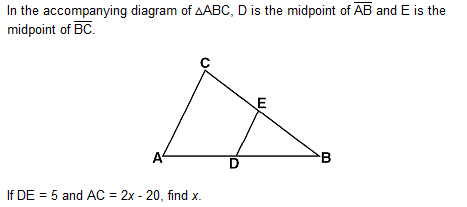


12. In the diagram of  below, .



If , , , and , what is the length of ?

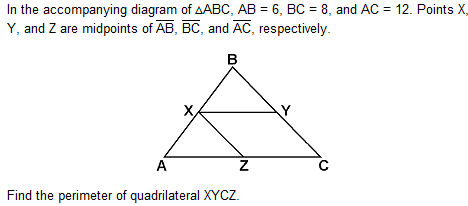
13.



14.



15.

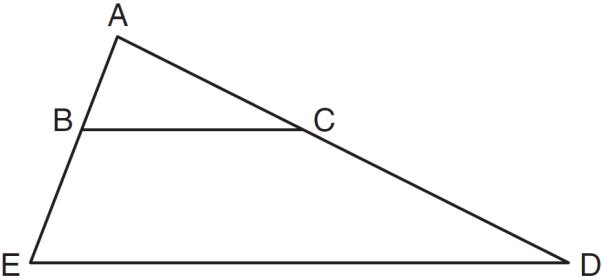


16.

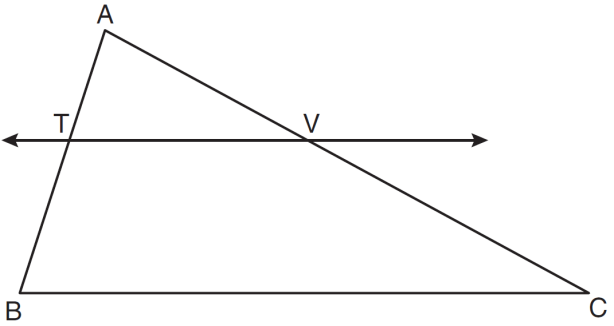


17. In the accompanying diagram, line segment BC is parallel to line segment ED. = 2,  = 4,

and = 9, find the length of .

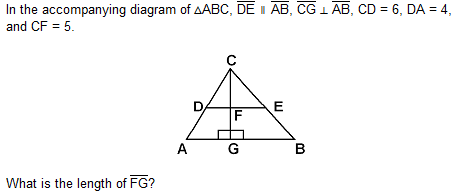


18. In the diagram below of , , , , and .

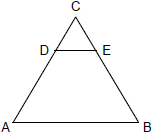


What is the length of ?

19.

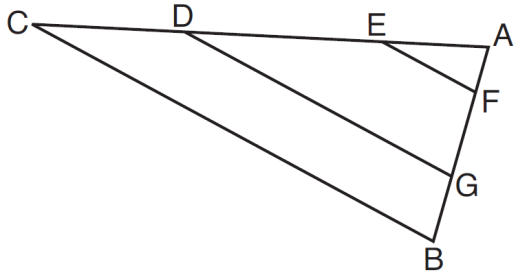


20. In the accompanying diagram of equilateral triangle *ABC*,  and .



If *AB* is three times as long as *DE*, what is the perimeter of quadrilateral *ABED*?

21. In the diagram below of , with  and , .



Which statement is *false*?

|  |  |
| --- | --- |
| 1) |  |
| 2) |  |
| 3) |  |
| 4) |  |

22.

