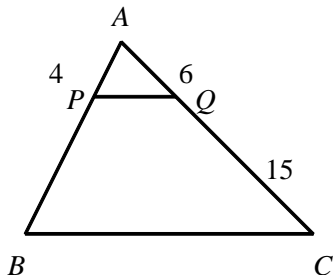


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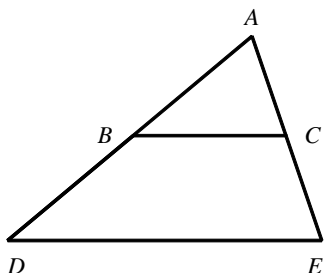
P.I. G.G.46: Investigate, justify, and apply theorems about proportional relationships among the segments of the sides of the triangle, given one or more lines parallel to one side of a triangle and intersecting the other two sides of the triangle

1. Given: $\overline{PQ} \parallel \overline{BC}$. Find the length of \overline{AB} .



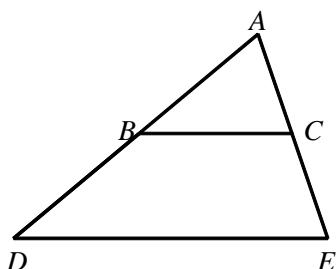
- [A] 14 [B] 11 [C] 16 [D] 18

2. In the figure shown, $\overline{BC} \parallel \overline{DE}$, $AB = 2$ yards, $BC = 9$ yards, $AE = 36$ yards, and $DE = 36$ yards. Find BD .

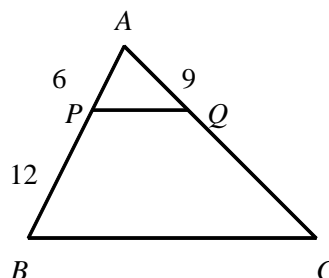


- [A] 9 yd [B] 8 yd [C] 6 yd [D] 27 yd

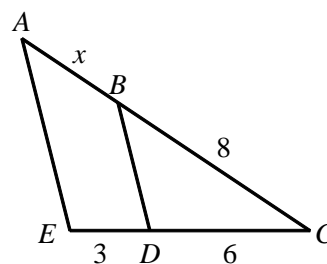
3. In the figure shown, $\triangle ABC \sim \triangle ADE$, $AB = 7$ yards, $BC = 8$ yards, $AE = 4$ yards, and $DE = 16$ yards. Find CE .



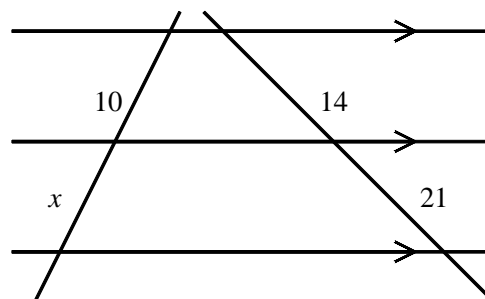
4. Given: $\overline{PQ} \parallel \overline{BC}$. Find the measure of \overline{CQ} .



5. Given $\overline{AE} \parallel \overline{BD}$, solve for x .



6. Find x .



[1] A

[2] C

[3] 2 yd

[4] 18

[5] 4

[6] 15