

$$
\begin{aligned}
& 4 \sqrt{2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot 5} \\
& 4 \cdot 2 \cdot 3 \sqrt{2 \cdot 5} \\
& 24 \sqrt{10}
\end{aligned}
$$

## Homework Check:

12. No; the corresponding angles are congruent, but the corresponding sides are not
13. No, they are not similar because the side ratios are not equal.
 proportional.
14. 
15. 


14. Yes; the corresponding angles are congruent, and the corresponding sides are proportional.
15. $x=6 \mathrm{~cm}, y=3.5 \mathrm{~cm}$
16. $z=10 \frac{2}{3} \mathrm{~cm}$
17. Yes, the corresponding angles are congruent. Yes, the corresponding sides are proportional.

Yes, $\triangle A E D \sim \triangle A B C$.
18. $\begin{aligned} & m=\frac{9}{2} \mathrm{~cm}=4.5 \mathrm{~cm} ; \\ & n=\frac{9}{4} \mathrm{~cm}=2.25 \mathrm{~cm}\end{aligned}$

## 7.2 - Similar Triangles

Lesson 7.2 Computer Investigation
AA Similarity conjecture: If two corresponding angles are congruent then the triangles are similar.

SSS Similarity Conjecture: If three sets of corresponding sides are proportional, then the triangles are similar

SAS Similarity Conjecture: If two sides of one triangle are proportional to two sides of another triangle and the included angles are congruent, then the triangles are similar

