

Simplify:

$$4\sqrt{3} \cdot 2\sqrt{15}$$

## Homework Check:

1. 16 m

2. 4 ft 3 in.

4. 10.92 m

5. 5.46 m

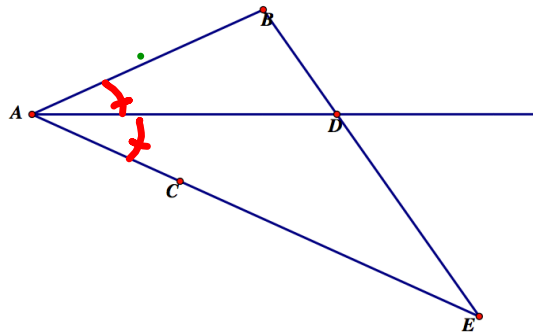
7. 90 m;  $\angle R$  and  $\angle O$  are both right angles and  $\angle P$  is the same angle in both triangles, so  $\triangle PRE \sim \triangle POC$  by AA.

## 7.4 - Corresponding Parts of Similar Triangles

**Proportional Parts Conjecture:** If two triangles are similar, then the lengths of the corresponding altitudes, medians and angle bisectors are proportional to the lengths of the corresponding sides.

**Angles Bisector/Opposite Side Conjecture:** A bisector of an angle in a triangle divides the opposite side into two segments whose lengths are the same ratio as the lengths of the two sides forming the angle.

$$\frac{AB}{AE} = \frac{BD}{DE}$$



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