## Chapter 3

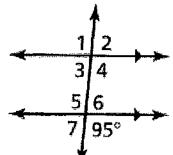
## Quiz

For use after Section 3.2

Use the figure to find the measure of the angle. Explain your reasoning.

Alternate Inferent to 26 Supplementary to 950

Vedad to 950



7777777777777777

Supplementary to 950

4. 2 = 95

Corresponds do 26 While it sypplementory

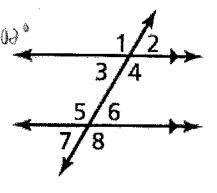
Complete the statement. Explain your reasoning.

**5.** If the measure of  $\angle 3 = 46^{\circ}$ , then the measure of  $\angle 6 = \underline{?}$ .  $U_{ij}(s)$ 

Alternole Interior Angles

**6.** If the measure of  $\angle 5 = 102^\circ$ , then the measure of  $\angle 8 = ?$ 

Vertical Angles



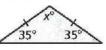
7. If the measure of  $\angle 4 = 98^{\circ}$ , then the measure of  $\angle 7 = 2^{\circ}$ .

Conservands to 24 and Supplementary to 27

**8.** If the measure of  $\angle 6 = 59^{\circ}$ , then the measure of  $\angle 4 = \frac{?}{?} \cdot \frac{?}{?} \cdot$ 

Syptemotog in 24

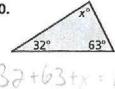
Find the measures of the missing interior angles. Show your work.



25135+x=140

704 V = 140

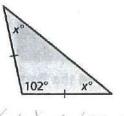
10.



32+63+x = 190

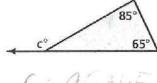
95+x= 180

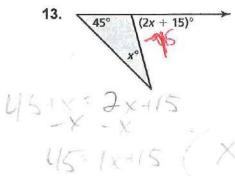
11.



X+X+102=180

Find the measure of the exterior angle. Show your work.

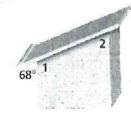




14. A lectern has four vertical sides and a slanted top. Find the measures of  $\angle 1$  and  $\angle 2$ . Explain your reasoning.

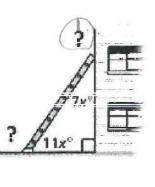
∠1=112° > Supplementary 10 68°

L2:68° - corresponds to 68°



15. A ladder leaning against a wall forms a triangle and exterior angles with the wall and the ground. What are the measures of the exterior angles? Justify your answer.

227 7V+90 35 190 : 125



30