## 12.8 Angles in a Circle

MATHPOWER™ Nine, pp. 474-477

Parts of a Circle	Central Angle	Inscribed Angle
S chord T diameter W	O Z	A O C

The measure of a central angle is twice the measure of an inscribed angle subtended by the same arc.

Inscribed angles subtended by the same arc are equal.

Inscribed angles subtended by a diameter are 90°.

In each diagram, name the inscribed angles and the central angles subtended by arc XY.







Find the measure of each unknown angle.

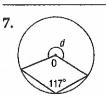


5.



6.



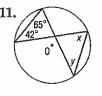


8.









Find the measure of each unknown angle.

12.



13.



14.



15.



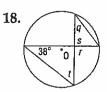
$$a = \underline{\hspace{1cm}}$$

16.





$$k =$$





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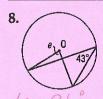


Find the measure of each unknown angle.



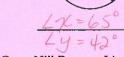












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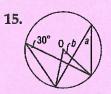
Find the measure of each unknown angle.





14.





16.





18.

