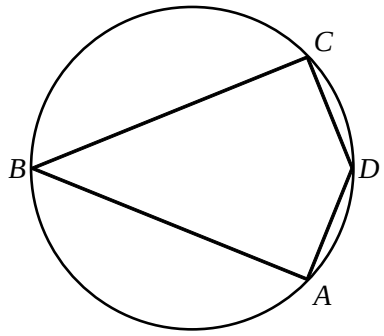
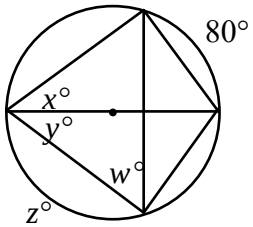
NAME:_____

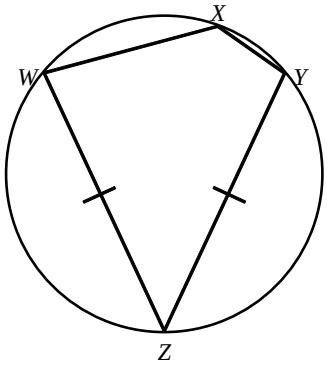
1. Given: $m\overset{\frown}{ABC} = 272$. Find $m\angle ABC$.



2. A child's toy is designed with a kite inscribed in a circle. Find each variable.



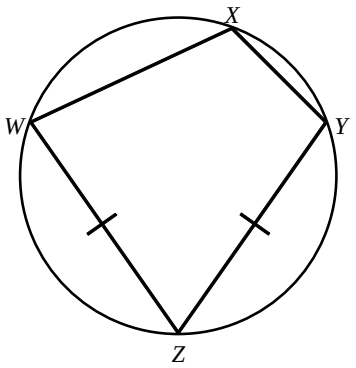
3. Given: $m\angle X = 130$; $\overline{WZ} \cong \overline{YZ}$; $m\angle Y = 100$



Refer to the diagram to find the measure of each of the following:

a. $\angle Z$ b. $\overset{\frown}{WZ}$ c. $\angle W$ d. $\overset{\frown}{WX}$

4. Given: $m\angle X = 110$; $\overline{WZ} \cong \overline{YZ}$; $m\angle Y = 100$

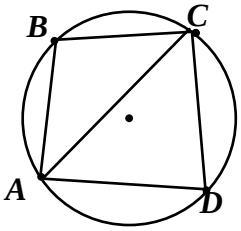


Refer to the diagram to find the measure of each of the following:

a. $\angle Z$ b. $\overset{\frown}{WZ}$ c. $\angle W$ d. $\overset{\frown}{WX}$

5. Compare the quantity in Column A with the quantity in Column B.

Column A	Column B
$m\angle ABC$	$m\angle ADC$



[A] The quantity in Column A is greater.

[B] The quantity in Column B is greater.

[C] The two quantities are equal.

[D] The relationship cannot be determined on the basis of the information supplied.

[1] 44

[2] $x = y = 40;\ \ w = 50;\ \ z = 100$

[3] a. $m\angle Z = 50$ b. $m\overset{\frown}{WZ} = 130$ c. $m\angle W = 80$ d. $m\overset{\frown}{WX} = 70$

[4] a. $m\angle Z = 70$ b. $m\overset{\frown}{WZ} = 110$ c. $m\angle W = 80$ d. $m\overset{\frown}{WX} = 90$

[5] A