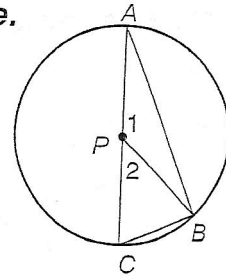


Arcs and Central Angles

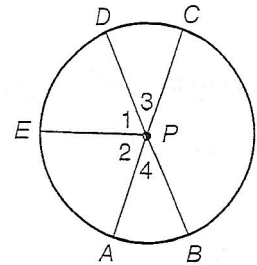
In $\odot P$, $m\angle 1 = 140$ and \overline{AC} is a diameter. Find each measure.

1. $m\angle 2$
2. $m\widehat{BC}$
3. $m\widehat{AB}$
4. $m\widehat{ABC}$



In $\odot P$, $m\angle 2 = m\angle 1$, $m\angle 2 = 4x + 35$, $m\angle 1 = 9x + 5$, and \overline{BD} and \overline{AC} are diameters. Find each of the following.

5. x
6. $m\widehat{AE}$
7. $m\widehat{ED}$
8. $m\angle 3$
9. $m\widehat{AB}$
10. $m\widehat{EC}$
11. $m\widehat{EB}$
12. $m\angle CPB$
13. $m\widehat{CB}$
14. $m\widehat{CEB}$
15. $m\widehat{DC}$
16. $m\widehat{CEA}$



17. The table below shows how federal funds were spent on education in 1990.

1990 Federal Funds Spent for Education	
Elementary/Secondary	\$ 7,945,177
Education for the Disabled	4,204,099
Post-Secondary Education	12,645,630
Public Library Services	145,367
Other	760,616
Total	\$25,700,889

- a. Use the information to make a circle graph.
- b. Out of the \$12,645,630 spent on post-secondary education, \$10,801,185 went to post-secondary financial assistance. What percent is that of the \$12,645,630?