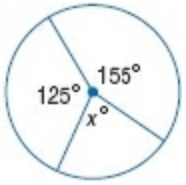
10-2 Measuring Angles and Arcs

Find the value of x.

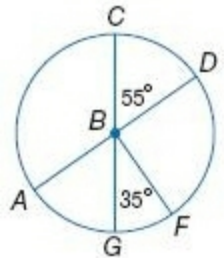
12. 

ANSWER:
80

15. 

ANSWER:
40

$\overline{AD}$ and $\overline{CG}$ are diameters of $\odot B$. Identify each arc as a *major arc*, *minor arc*, or *semicircle*. Then find its measure.



20. $m\widehat{GCF}$

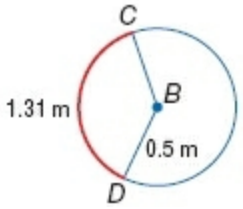
ANSWER:
major arc; 325

22. $m\widehat{AG}$

ANSWER:
minor arc; 55

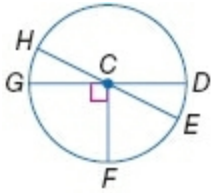
CCSS REASONING Find each measure. Round each linear measure to the nearest hundredth and each arc measure to the nearest degree.

46. $m\widehat{CD}$



ANSWER:
150°

ALGEBRA In $\odot C$, $m\angle HCG = 2x$ and $m\angle HCD = 6x + 28$. Find each measure.



48. $m\widehat{EF}$

ANSWER:
52

50. $m\overset{\frown}{HGF}$

ANSWER:

128