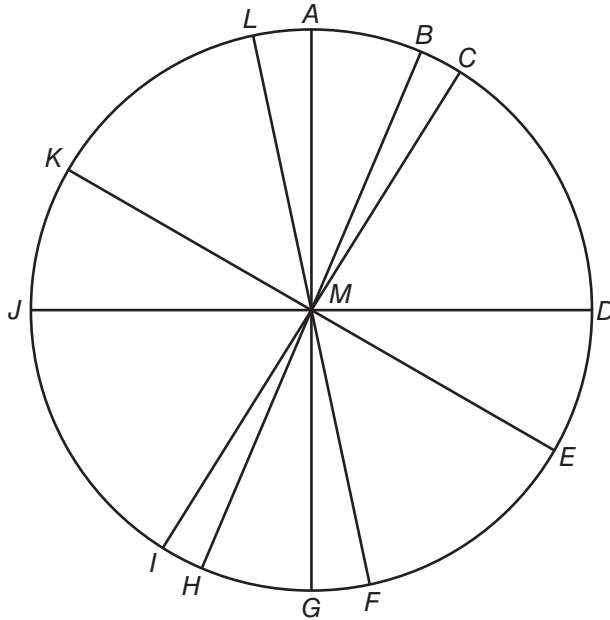


Put Away Your Protractor

Adjacent angles that form a complete circle have measures that add up to 360° . Read the clues below and use what you know about angles to find the measure of the angles in the figure.

Visual Thinking



Enrichment 11-3

Clues

- All the segments pass through the center of the circle.
- $m\angle GMF$ is 36° less than $m\angle FME$.
- $\angle GMD$ is a right angle.
- 20 adjacent angles the size of $\angle BMC$ would form a straight angle.
- $m\angle AMK$ is twice the size of $m\angle DME$.
- $m\angle BMG = 157^\circ$

- | | | |
|---------------------------|---------------------------|---------------------------|
| 1. $m\angle AMB =$ _____ | 2. $m\angle BMC =$ _____ | 3. $m\angle CMD =$ _____ |
| 4. $m\angle DME =$ _____ | 5. $m\angle EMF =$ _____ | 6. $m\angle FMG =$ _____ |
| 7. $m\angle GMH =$ _____ | 8. $m\angle HMI =$ _____ | 9. $m\angle IMJ =$ _____ |
| 10. $m\angle JMK =$ _____ | 11. $m\angle KML =$ _____ | 12. $m\angle LMA =$ _____ |

13. Is there a way you can check your answers?
