4-6 Isosceles and Equilateral Triangles

CCSS SENSE-MAKING  Find the value of each variable.

5. \[2z - 15\]

ANSWER: 12

CCSS REGULARITY  Find the value of each variable.

20. \[3x + 6\]^\circ\]

ANSWER: \[x = 13\]

21. \[
\begin{align*}
52^\circ & \quad (6y - 2)^\circ \\
(4x + 20)^\circ & \quad X
\end{align*}
\]

ANSWER: \[x = 11, y = 11\]

CCSS REGULARITY  Find each measure.

30. \(m \angle ACD\)

ANSWER: 44
4-6 Isosceles and Equilateral Triangles

32. \( m \angle ABC \)

**ANSWER:**

22

48. **ERROR ANALYSIS** Alexis and Miguela are finding \( m \angle G \) in the figure shown. Alexis says that \( m \angle G = 35 \), while Miguela says that \( m \angle G = 60 \). Is either of them correct? Explain your reasoning.

![Diagram of triangle with angles F, H, and G]

**ANSWER:**

Neither; \( m \angle G = \frac{180 - 70}{2} \) or 55.