# MATH QUIZ – EIGHTH GRADE

**Name:** _____

**Date:** _____

---

**1. Leveled Practice** For the figure shown, find $m\angle 1$.

$\angle 1$ is a [_____] of the 119° angle.

The 119° angle is equal to the sum of its [_____].

So, $m\angle 1 =$ [_____] – [_____].

$m\angle 1 =$ [_____]

---
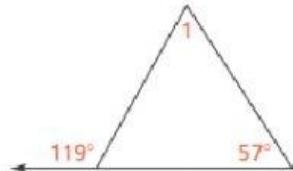
**2.** Find $m\angle B$ for the triangle shown.

$mLA + mLB + mLC = 180º$

_____ + $mLB$ + _____ = 180º

$mLB = 180 -$ _____ - _____

$mLB =$ _____º

**3.** Find $m\angle R$.

$mLR =$ _____º

---
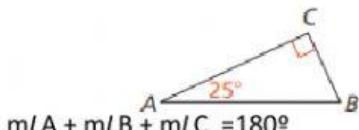
**4. Reasoning** Can you find the $m\angle 1$ without using remote interior angles? Explain. Ⓖ MP.2

[                                        ]

---
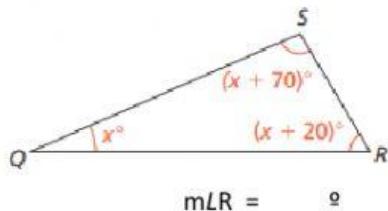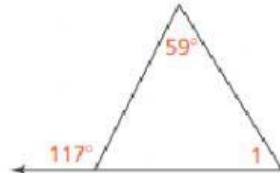
**5.** Find the value of $x$ in the triangle.

$43º + 100º + xº = 180º$

$xº = 180º - (43º + 100º)$

$x =$ _____º
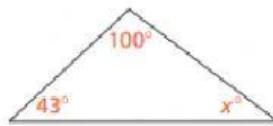
**6. Higher Order Thinking** Given that $m\angle A = (16x)°$, $m\angle C = (8x + 20)°$, and $m\angle D = 128°$, what is $m\angle B$?

$$m\angle B = \underline{\hspace{2cm}}°$$
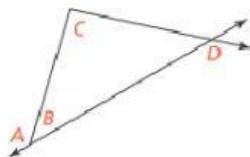
**7.** What are the remote interior angles for $\angle 6$? Select all that apply.

- ☐ $\angle 1$
- ☐ $\angle 2$
- ☐ $\angle 3$
- ☐ $\angle 4$
- ☐ $\angle 5$
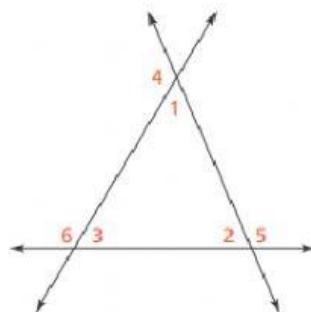
**8.** In the figure, $m\angle 1 = (5x + 11)°$, $m\angle 2 = (3x + 22)°$, and $m\angle 3 = (9x + 28)°$.

**PART A**

Which equation could you use to find $m\angle 1$?

Ⓐ $m\angle 1 + m\angle 2 + m\angle 3 = 90°$

Ⓑ $m\angle 1 + m\angle 2 + m\angle 3 = 180°$

Ⓒ $m\angle 1 - m\angle 2 = m\angle 3$

Ⓓ $m\angle 1 + m\angle 2 = m\angle 3$
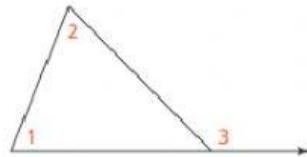
**PART B**

What is $m\angle 1$? Explain your reasoning.