Key

WARM-UP
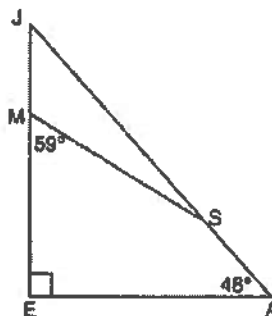
1. In $\square ABC$, $m\angle A = x$, $m\angle B = 2x + 2$, and $m\angle C = 3x + 4$. What is the value of x?

A. 29
B. 31
C. 59
D. 61

2. Juliann plans on drawing ABC, where the measure of $\angle A$ can range from 50° to 60° and the measure of $\angle B$ can range from 90° to 100°. Given these conditions, what is the correct range of measures possible for $\angle C$?

A. 20° to 40°
B. 30° to 50°
C. 80° to 90°
D. 120° to 130°

3. In the diagram of JEA below, $m\angle JEA = 90$ and $m\angle EAJ = 48$. It is given that $m\angle EMS = 59$. What is $m\angle JSM$?
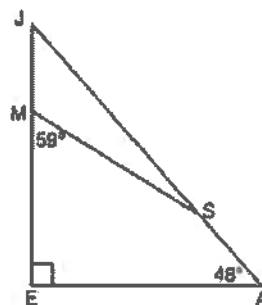

A. 163
B. 121
C. 42
D. 17