

**Smarter Balanced
Sample Test Questions
MATH, Grades 9-12**

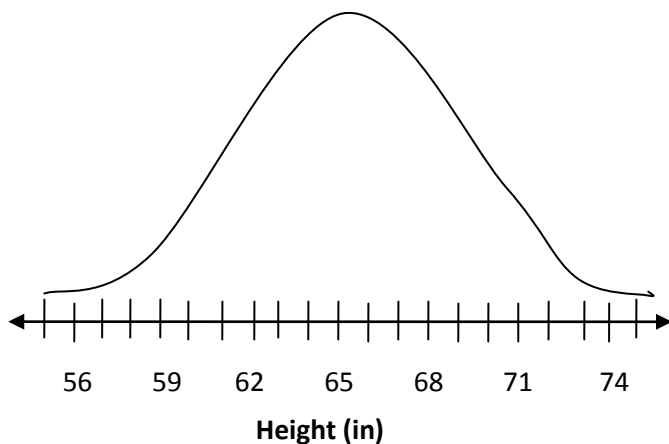
**MATH
Grades 9, 10, 12**

Sample question: A circle has its center at (6, 7) and goes through the point (1, 4). A second circle is tangent to the first circle at the point (1, 4) and has the same area.

What are the possible coordinates for the center of the second circle? Show your work or explain how you found your answer.

Sample question: The height of adult women in the United States can be approximated by a normal distribution with a mean of 65 inches and a standard deviation of 3 inches.

Click on the number line to show a vertical line that approximates the height at which 25% of the women are shorter and 75% are taller.



**MATH
Grade 11**

Sample question: Multiply and combine like terms to determine the product of these polynomials.
 $(2x - 3)(5x + 6)$

Sample performance task question: The NDA claims that the proposed new model for the New York speeding fine system is fairer than the current system.

Do you agree or disagree with the claim? Explain your reasoning* using specific examples from this task.

*Glossary provided