

Mathematics Assessment Program

College and Career Readiness

Mathematics

Short Tasks: Reasoning with Equations and Inequalities 1

1. If $x^2 - y^2 = 55$, and $x - y = 11$, find the value of y .
2. If $x^2 = 289$ what 2 values could x have?
3. If $3x + y = 19$, and $x + 3y = 1$.
Find the value of $2x + 2y$.
4. If x and y are integers and $x + y < 11$, and $x > 6$
What is the smallest possible value of $x - y$?
5. Sketch the solution set of the system
 $x \geq 0, y < 3, x - y > 1, y > 2x - 1$.
6. If $\frac{5c}{4} - \frac{2c}{3} = \frac{7}{10}$, find c .