

Grades 6-8, Claim 2

**Task Model 2A.3**

**Expectations:**

- The student solves a real world and mathematical problems using expressions, equations, and functions (functions limited to Grade 8 problems).
- For problems involving equations in one variable, grade level may be varied by choosing equations of the form  $px = q$  or  $x+p = q$  (Grade 6) or equations of the form  $px +q = r$  or  $p(x+q) = r$  (Grade 7). (Note that there is no restriction on equation structure in Grade 8.)
- The equation should not be extractable by key words or other scaffolding.
- Items can simply ask for the equation and not its solution (Example Item 2A.3c), or they can ask for the solution as well.

**Example Item 2A.3a (Grade 6)**

Primary Target 2A (Content Domain EE), Secondary Target 1F (CCSS 6.EE.B), Tertiary Target 2D

Sierra’s bought a bag of rice and some tomatoes. The corner of her of her receipt got torn. The torn receipt is shown.

Write an equation that can be solved to determine the cost,  $x$ , of the bag of rice.

Enter your equation in the response box.

Rice	
Tomatoes	3.87
Tax	<u>0.47</u>
Total	7.23

**Rubric:** (1 point) The student enters a correct equation in the response box (e.g.,  $x+3.87+0.47=7.23$ ).

**Response Type:** Equation/Numeric