## Unit 7 Lesson 5: Steps in Solving Equations

### 1 Explaining Equivalent Expressions (Warm up)

#### Student Task Statement

Explain or show why each of these equations is equivalent to .

### 2 Checking Work

#### Student Task Statement

Here is Clare’s work to solve some equations. For each problem, do you agree or disagree with Clare’s work. Explain your reasoning.



### 3 Row Game: Rewriting Equations

#### Student Task Statement

Work independently on your column. Partner A completes the questions in column A only and partner B completes the questions in column B only. Your answers in each row should match. Work on one row at a time and check if your answer matches your partner’s before moving on. If you don’t get the same answer, work together to find any mistakes.

Partner A: Write an equivalent equation so that the given condition is true.

* + The expression on the right side is 0
  + The left side is a product
  + The right side is 0
  + The left side is 0 and there are no parentheses
  + The equation is quadratic and the right side is zero.
  + One side of the equation has a term with
  + The right side is 0 and the left side is a product

Partner B: Write an equivalent equation so that the given condition is true.

* + The left side is expressed as the sum of two terms
  + The left side is a product and the right side is not 0
  + The right side is 0
  + The left side is 0
  + The left side involves
  + One side of the equation has a term with
  + The right side of is 0 and the left side is a product



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