## Unit 7 Lesson 12: Completing the Square (Part 1)

### 1 Perfect or Imperfect? (Warm up)

#### Student Task Statement

Select **all** expressions that are perfect squares. Explain how you know.

### 2 Building Perfect Squares

#### Student Task Statement

Complete the table so that each row has equivalent expressions that are perfect squares.

| standard form | factored form |
| --- | --- |
| 1. |  |
| 2. |  |
| 3. |  |
| 4. |  |
| 5. |  |
| 6. |  |
| 7. |  |

### 3 Dipping Our Toes in Completing the Square

#### Student Task Statement

One technique for solving quadratic equations is called **completing the square***.* Here are two examples of how Diego and Mai completed the square to solve the same equation.

Diego:

Mai:

Study the worked examples. Then, try solving these equations by completing the square:



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