## Unit 6 Lesson 9: Standard Form and Factored Form

### 1 Math Talk: Opposites Attract (Warm up)

#### Student Task Statement

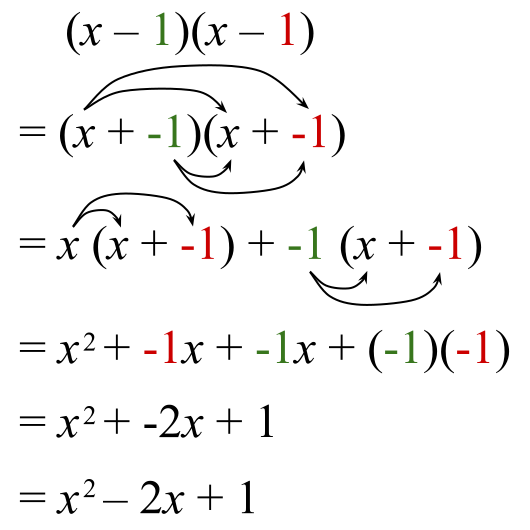
Solve each equation mentally.

### 2 Finding Products of Differences

#### Student Task Statement

1. Show that and are equivalent expressions by drawing a diagram or applying the distributive property. Show your reasoning.
2. For each expression, write an equivalent expression. Show your reasoning.

#### Activity Synthesis



### 3 What is the Standard Form? What is the Factored Form?

#### Student Task Statement

The quadratic expression is written in **standard form**.

Here are some other quadratic expressions. The expressions on the left are written in standard form and the expressions on the right are not.

Written in standard form:

Not written in standard form:

1. What are some characteristics of expressions in standard form?
2. and in the right column are quadratic expressions written in **factored form**. Why do you think that form is called factored form?



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