

What is found in an Engaging Mathematics TEKS-based activity?

Each activity addresses a specific student expectation that is reflected in the content objective.

Common classroom materials are used for ease of preparation. Materials are listed 1-per-student unless otherwise noted. Page titles for student handouts are represented with bold font.

Students should have continuous access to STAAR® Reference Materials that will be made available for the assessment.

Facilitation questions are provided for teacher use when supporting student thinking and discourse.

Opposites 6(2)(B)

Activity Objective
The student will identify a number and its opposite.

- Materials**
- **Opposites**
 - Colored pencils or crayons—at least 8 different colors

- Facilitation Questions**
- **What is the relationship between the cards within the shaded set?**
Possible answer: Descended and ascended are opposites. An airplane can go down (descend) 16 kilometers or go up (ascend) 16 kilometers.
 - **What is the opposite of losing 7 pounds?**
The opposite of losing pounds is gaining pounds.
 - **How can you represent gaining 7 pounds of total weight as an integer? Losing 7 pounds of total weight?**
+7 (gaining weight); -7 (losing weight)

- Answers**
- | | |
|--|---|
| Shari deposited \$10.
+10 | The football team gained 10 yards.
+10 |
| Mika withdrew \$10.
-10 | The football team lost 10 yards.
-10 |
| The temperature was 7° above zero.
+7 | The puppy gained 7 pounds.
+7 |
| The temperature was 7° below zero
-7 | The puppy lost 7 pounds.
-7 |
| The man was standing 3 feet above sea level.
+3 | The stock market rose 3 points.
+3 |
| The woman was standing 3 feet below sea level.
-3 | The stock market dropped 3 points.
-3 |
| The toy car moved forward 16 inches.
+16 | |
| The toy car moved backwards 16 inches.
-16 | |

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An answer key is included for each activity.

Each activity includes an opportunity for students to articulate and summarize aspects of their learning.


Name: _____ Date: _____

Opposites

Identify each situation with an integer. Write a pair of opposite situations using a number line. Shade each pair of opposite situations using a different color. One set has been done for you. Some situations are incomplete. Use a blank space to create opposite situations to complete the pairs.

Shari deposited \$10. _____	The temperature was 7°F above zero. _____	The football team gained 10 yards. _____	The airplane descended 16 kilometers. -16
The man was standing 3 feet above sea level. _____	The puppy lost 7 pounds. _____	The airplane ascended 16 kilometers. 16	The woman was standing 3 feet below sea level. _____
Mika withdrew \$10. _____		The stock market rose 3 points. _____	The football team lost 10 yards. _____
The stock market dropped 3 points. _____	The toy car moved forward 16 inches. _____		The temperature was 7°F below zero. _____

Communicating about Mathematics
What do you notice about the situations that are best represented by a negative integer?



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Engaging Mathematics, Volume I: Grade 6

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