

Absolute Value Review

1) $|13| + |-5| = 18$

3) $|2| + |-2| = 4$

2) $-|-5| = -5$

4) $-|10| + |10| = 0$

I can explain apply the additive inverse.

Additive Inverse: What you add to a number to get 0

1) $-7 + \underline{7} = 0$

3) $\underline{5} + (-5) = 0$

5) $\underline{-8} + -(-8) = 0$

2) $15 + \underline{-15} = 0$

4) $13 + (-13) = \underline{0}$

6) $-(-19) + -19 = \underline{0}$

Real Life Examples:

Opposites combine to make zero.

Example 1: A deposit of \$50 combined with a withdrawal of \$ 50

Example 2: A gain of 5 yards after a loss of 5 yards

Discussion Questions: Discuss with your shoulder partner.

1) (answers vary)

2) (answers vary)

Multiple Choice Review

1) Which statement best describes a situation in which opposite quantities combine to make zero?

- A. Shawna made 8 cups of soup and divided the soup into 8 containers.
- B. Melanie deposited \$10 in her savings account and then withdrew \$10 from the account.
- C. Peter scored 2 goals in the first period of a hockey game and 2 goals in the second period.
- D. Marcos missed 4 questions on a test in which each question was worth 4 points.

2) Which statement best describes a situation in which opposite quantities combine to make zero?

- A. Angie had 100 sheets of paper and divided them evenly into 5 folders.
- B. Mandy deposited \$200 in her savings account and then added \$200 her following pay period.
- C. Paul and Josie are on a team. Paul scored 5 points on his turn and Josie lost 5 points on her turn.
- D. Mario bought 2 sodas, which cost \$2 each.

3) Which situations are examples of opposite quantities adding to zero? **Select ALL that apply.**

- A. A hot air balloon begins at 30 feet above the ground, ascends 50 feet, and then descends 80 feet.
- B. Lily opens a bank account and deposits \$200. When she gets her next pay check she puts in \$100 and an extra \$100 she earned babysitting.
- C. A car drives 20 feet forward, turns right, and drives another 20 feet.
- D. Jackson deposits \$300 into his bank account. Then he writes two checks for \$150.
- E. The temperature at night was 8 degrees below zero. By morning it had risen 5 degrees. By noon, it had risen 3 more degrees.

4) Which of the following situations involve opposite quantities combining to make 0?

- A. Stella has a new piggy bank. She adds 3 quarters on Tuesday, and then adds another 3 quarters on Thursday.
- B. Devon opens a new checking account with \$30. His first purchase made with his new debit card, totals \$28.
- C. Joe makes 1 ½ liters of lemonade and drinks it all during the afternoon.
- D. Brittany is writing a novel. She wrote 4 new pages to finish Chapter 1. When she reviews Chapter 1, she discards these 4 pages and an additional 4 pages.

Numeric Examples

1) Taylor has \$-5 in her lunch account at the start of the week. She can only buy lunch if her account balance is positive. Taylor adds \$5 to her account.

1. What is the value of her account balance now? \$0
2. What can she buy on the menu? nothing
3. How much more would she need to add before she can buy a banana? \$2

2) During a football game, Kevin gained five yards on the first play. Then he lost seven yards on the second play. How many yards does Kevin need on the next play to get the team back to where they were when they started?

2 yards