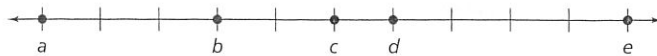


Exercises

For Exercises 1–4, graph each integer on a number line. Then identify any opposites.

- $-1, 4, 2, -4, 3, 1$
- $2, 0, -3, 4, -1, 3$
- $-5, 10, -2, 4, 0, -10$
- $-5, 8, -7, -10, 5, 10$
- Use an integer to represent each play in a football game.
 - The fullback carries the ball for a gain of 6 yards.
 - The quarterback is sacked for a loss of 3 yards.
 - The play stops at the line of scrimmage for no gain.
- Use an integer to represent each change to a bank account.
 - A deposit of \$20 is made on Monday.
 - A check for \$4 is written on Tuesday.
 - A check for \$6 is written on Wednesday.
 - No transactions are made on Thursday.
- Use an integer to represent each position of an elevator.
 - The elevator leaves the ground floor and arrives at the 12th floor.
 - The elevator leaves the ground floor and arrives at the second basement level.
 - The elevator leaves the ground floor, arrives at the 7th floor, and then travels down 3 floors.
- Use an integer to represent time in seconds for a space-ship launch.
 - Lift off.
 - The countdown begins with 10 seconds before lift off.
 - The space ship has been in the air for one minute.
 - Why do you think a launch countdown starts at *T-minus ten seconds*?
- Use the number line below.

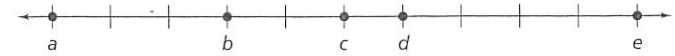


- If a and e are opposites, what integer would you use to represent c ? Assign integer values to a and e .
- If a and d are opposites, is c *positive* or *negative*? Explain.

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