

Lesson 1-3: Add Integers

1. Sample answer: Add absolute values and use the sign of the addends when adding integers with the same sign. Find the difference of the absolute values and use the sign of the addend with the greater absolute value when adding integers with different signs.
2. Sample answer: The sign of the addend with the greater absolute value will be the sign of the sum.
3. Sample answer: Start at either negative integer, and move left the absolute value of the other negative integer.
4. \$205
5. -85
6. Yes; Sample answer: 30 represents the high temperature, and (-23) represents the change in temperature.
7. 3; negative
 $5 + (-3) = 2$
8. 3; negative
 $-1 + (-3) = -4$
9. a. $9 + (-18)$
b. 1
c. $-5 + (-4)$
d. -9
e. City B
10. a. 8,000
b. -8,000
11. -95, or 95 feet below the surface
12. -32
13. Sample answer: Adam may have calculated $-200 + 45$ instead of $-200 + (-45)$
14. a. $45 + (-17) + (-8) + (-4)$
b. No, she only has \$16
15. Sample answer:
Mrs. Jones:
 $(-80) + (-80) + (-80) = -240$
 $300 + (-240) = 60$
Mr. Beliz:
 $(-62) + (-62) + (-62) + (-62) = -248$
 $300 + (-248) = 52$
Lessons from Mrs. Jones are a better deal because Samantha will have \$60 left when she learns the song. If she takes lessons from Mr. Beliz, she will only have \$52 left.
16. $-10 + (-10)$
17. $-10 + 10$