1.3 Independent Practice

COMMON CORE 7.NS.1, 7.NS.1c

Personal Math Trainer

Online Assessment and Intervention

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16. Theo had a balance of −$4 in his savings account. After making a deposit, he has $25 in his account. What is the overall change to his account?

_____

17. As shown, Suzi starts her hike at an elevation below sea level. When she reaches the end of the hike, she is still below sea level at −127 feet. What was the change in elevation from the beginning of Suzi's hike to the end of the hike?

Current Elevation: −225 feet

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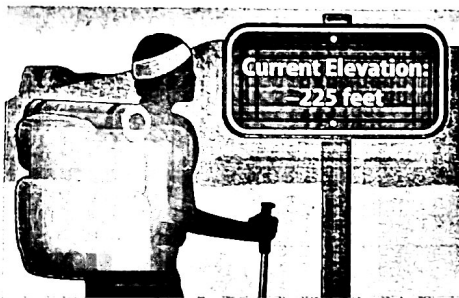
18. The record high January temperature in Austin, Texas, is 90 °F. The record low January temperature is −2 °F. Find the difference between the high and low temperatures.

_____

19. Cheyenne is playing a board game. Her score was −275 at the start of her turn, and at the end of her turn her score was −425. What was the change in Cheyenne's score from the start of her turn to the end of her turn?

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20. A scientist conducts three experiments in which she records the temperature of some gases that are being heated. The table shows the initial temperature and the final temperature for each gas.

Gas	Initial Temperature	Final Temperature
A	−21 °C	−8 °C
B	−12 °C	12 °C
C	−19 °C	−15 °C

a. Write a difference of integers to find the overall temperature change for each gas.

Gas A: _____

_____

Gas B: _____

_____

Gas C: _____

_____

b. **What If?** Suppose the scientist performs an experiment in which she cools the three gases. Will the changes in temperature be positive or negative for this experiment? Why?

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YOUR TURN

Find each difference.

4. $-7 - 2 =$ _____

5. $-1 - (-3) =$ _____

6. $3 - 5 =$ _____

7. $-8 - (-4) =$ _____

Guided Practice

Explain how to find each difference using counters. (Explore Activity 1)

1. $5 - 8 =$ _____

_____

_____

_____
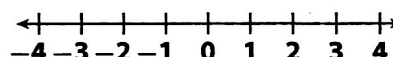
_____

2. $-5 - (-3) =$ _____

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_____

Use a number line to find each difference. (Explore Activity 2)

3. $-4 - 5 = -4 +$ _____ $=$ _____
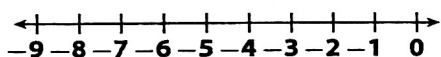
4. $1 - 4 = 1 +$ _____ $=$ _____

Solve. (Example 1)

5. $8 - 11 =$ _____

6. $-3 - (-5) =$ _____

7. $15 - 21 =$ _____

8. $-17 - 1 =$ _____

9. $0 - (-5) =$ _____

10. $1 - (-18) =$ _____

11. $15 - 1 =$ _____

12. $-3 - (-45) =$ _____

13. $19 - (-19) =$ _____

14. $-87 - (-87) =$ _____

ESSENTIAL QUESTION CHECK-IN

15. How do you subtract an integer from another integer without using a number line or counters? Give an example.

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