

**LESSON**  
**11-6** **Practice C**  
**Subtracting Integers**

Find each difference.

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|--------------------------|-----------------------------|-----------------------------|
| 1. $29 - (-11)$ _____    | 2. $-14 - 12$ _____         | 3. $-9 - (-15)$ _____       |
| 4. $-8 - (-25)$ _____    | 5. $-101 - 38$ _____        | 6. $53 - (-17)$ _____       |
| 7. $7 - (-12) - 5$ _____ | 8. $4 - (-23) - (-7)$ _____ | 9. $-2 - (-6) - (-1)$ _____ |

Evaluate  $n - (-9)$  for each value of  $n$ .

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|----------------------|---------------------|---------------------|
| 10. $n = 5$ _____    | 11. $n = 0$ _____   | 12. $n = -38$ _____ |
| 13. $n = 1$ _____    | 14. $n = 12$ _____  | 15. $n = -16$ _____ |
| 16. $n = -110$ _____ | 17. $n = -26$ _____ | 18. $n = 51$ _____  |

Evaluate each expression for the given value of the variable.

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|--------------------------------------|------------------------------------|--------------------------------------|
| 19. $x - (-8)$ , $x = 14$<br>_____   | 20. $w - (-43)$ , $w = 8$<br>_____ | 21. $z - 9$ , $z = -17$<br>_____     |
| 22. $-45 - p$ , $p = -6$<br>_____    | 23. $-5 - m$ , $m = 11$<br>_____   | 24. $n - 14$ , $n = -30$<br>_____    |
| 25. $y - (-11)$ , $y = -19$<br>_____ | 26. $v - 20$ , $v = -43$<br>_____  | 27. $c - (-29)$ , $c = 100$<br>_____ |

28. Let  $x$  and  $y$  be opposite numbers. Subtract  $y$  from  $x$  and then subtract  $x$  from  $y$ . Describe the two differences.

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29. How is subtracting a negative integer related to its absolute value and addition?

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**LESSON**  
**11-6****Problem Solving*****Subtracting Integers***

Write the correct answer.

1. The average surface temperature on Earth is  $59^{\circ}\text{F}$ . The average surface temperature on Mars is  $126^{\circ}\text{F}$  lower than on Earth. What is the average surface temperature on Mars?  
  
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2. The average surface temperature on Saturn is  $46^{\circ}\text{F}$  colder than on Jupiter. Jupiter's average surface temperature is  $162^{\circ}\text{F}$  below zero. What is the average surface temperature on Saturn?  
  
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3. Venus has the hottest average surface temperature at  $854^{\circ}\text{F}$ . Mercury, the planet closest to the Sun, has an average surface temperature that is  $522^{\circ}\text{F}$  colder than Venus's. What is Mercury's average surface temperature?  
  
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4. Pluto has an average surface temperature of  $355^{\circ}\text{F}$  below zero. Neptune, its closest neighbor, has the coldest average surface temperature. It is  $10^{\circ}\text{F}$  colder on Neptune than on Pluto. What is the average surface temperature on Neptune?  
  
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Circle the letter of the correct answer.

5. Which of the following is 247 below zero minus 221 above zero?  
A -26  
B 129  
C -468  
D 468
6. Which of the following is the difference between  $806^{\circ}\text{C}$  above zero and  $328^{\circ}\text{C}$  below zero?  
F  $1,134^{\circ}\text{C}$   
G  $478^{\circ}\text{C}$   
H  $-478^{\circ}\text{C}$   
J  $-1,134^{\circ}\text{C}$
7. What is  $-40^{\circ}\text{C}$  minus  $-30^{\circ}\text{C}$ ?  
A  $-10^{\circ}\text{C}$   
B  $70^{\circ}\text{C}$   
C  $-120^{\circ}\text{C}$   
D  $-1^{\circ}\text{C}$
8. Which of the following is the difference between  $8,700^{\circ}\text{F}$  and  $-344^{\circ}\text{F}$ ?  
F  $8,356^{\circ}\text{F}$   
G  $900^{\circ}\text{F}$   
H  $-9^{\circ}\text{F}$   
J  $9,044^{\circ}\text{F}$