Practice B

1-5 Subtracting Integers

Subtract.

3.
$$7 - 12$$

Evaluate each expression for the given value of the variable.

13.
$$x - 8$$
 for $x = 10$

13.
$$x - 8$$
 for $x = 10$ **14.** $w - 10$ for $w = 15$ **15.** $12 - t$ for $t = -8$

15.
$$12 - t$$
 for $t = -8$

16.
$$15 - x$$
 for $x = -12$

17.
$$w - 20$$
 for $w = -15$

16.
$$15 - x$$
 for $x = -12$ **17.** $w - 20$ for $w = -15$ **18.** $-15 - x$ for $x = -10$

19.
$$-9 - x$$
 for $x = -20$

20.
$$y - (-10)$$
 for $y = -10$

19.
$$-9 - x$$
 for $x = -20$ **20.** $y - (-10)$ for $y = -10$ **21.** $x - (-15)$ for $x = -5$

22.
$$|w - 8| + 6$$
 for $w = 9$

22.
$$|w-8|+6$$
 for $w=9$ **23.** $16-|t+8|$ for $t=10$ **24.** $|14-x|-9$ for $x=8$

24.
$$|14 - x| - 9$$
 for $x = 8$

- **25.** The altitude of Mt. Blackburn in Alaska is 16,390 feet. The altitude of Mt. Elbert in Colorado is 14,433 feet. What is the difference in the altitudes of the two mountains?
- 26. In January, Jesse weighed 230 pounds. By November, he weighed 185 pounds. How much did Jesse's weight change?

Practice B LESSON Practice A 1-5 Subtracting Integers 1-5 Subtracting Integers Subtract. Subtract. **3.** −2 − 2 **2.** 10 – 5 **3.** 7 – 12 **1**. 4 – 1 **2**. 1 – 2 4. -2 - 1 1.8-2 4. 16 - 10 ______ 6 5.5-4 **6.** 7 – 10 **7.** 6 – 1 **8.** 2 – 9 **5.** 3 – 10 **6.** 16 – 9 7. -4 - 9 **8.** -8 - 10 <u>-18</u> 5 ____7 -13 -3-77 **9.** 33 – 57 **10.** 16 – 49 **11.** -114 - 19 **9.** 15 – 8 **10**. 7 – 21 **11.** -6 - 10 **12**. 22 - 8 **12.** -88 - (-10) 14 -133-78 -24-337 -14 -16 **13**. 13 – 5 **14**. 72 – 11 **15.** -46 - 90 **16.** 2 – 11 Evaluate each expression for the given value of the variable. **13.** x - 8 for x = 10**14.** w - 10 for w = 15 **15.** 12 - t for t = -861 -136-9 2 5 Evaluate each expression for the given value of the variable. **17.** x - 3 for x = 4**18.** a - 2 for a = 5**19.** t - 1 for t = 3**16.** 15 - x for x = -12**17.** w - 20 for w = -15 **18.** -15 - x for x = -10___1 ____3 27 -5**19.** -9 - x for x = -20 **20.** y - (-10) for y = -10 **21.** x - (-15) for x = -5**22.** -2 - d for d = -5**20.** 6 - y for y = 2**21.** 5 - w for w = 14 3 -54 10 **23.** -3 - x for x = -6**24.** |t-6|+2 for t=8 **25.** |2+y|+2 for y=1**22.** |w-8|+6 for w=9 **23.** 16-|t+8| for t=10 **24.** |14-x|-9 for x=826. The temperature in Vancouver, Washington, is 23°F. The 25. The altitude of Mt. Blackburn in Alaska is 16,390 feet. The altitude of Mt. Elbert in Colorado is 14,433 feet. What is the temperature in Nome, Alaska, is -2° F. What is the difference difference in the altitudes of the two mountains? in the two temperatures? 25°F 1957 feet 26. In January, Jesse weighed 230 pounds. By November, he weighed 185 pounds. How much did Jesse's weight change? 27. Kosey has \$630 in his checking account. He writes a check for \$160. What is his new balance in the account? -45 pounds \$470 Copyright © by Holt, Rinehart and Winston. **Holt Mathematics** Copyright © by Holt, Rinehart and Winston. 38 **Holt Mathematics** LESSON Practice C Review for Mastery 1-5 Subtracting Integers Subtracting Integers Subtract. To subtract one integer from another, rewrite the subtraction as the addition of an opposite. Then use the rules for adding integers. **1.** -15 - 22 **2.** -18 - (-25) **3.** 27 - (-30) **4.** 35 - 50 4 - (-5) Subtracting a Negative 4 – 5 Subtracting a Positive 7 57 -154 - (+5) Change subtraction to Change subtraction to 4 + (+5) addition of a positive. 4 + (-5) addition of a negative. Evaluate each expression for the given value of the variable. YYYY BBBBB **5.** x - 25 for x = 35**6.** a - 27 for a = 18**7.** 27 - x for x = -17\(\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tint{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tin}\exiting{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tert{\text{\text{\text{\text{\text{\text{\texi}}\\ \text{\text{\te}\text{\text{\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\text{\texi}\text{\texi}\text{\texi}\text{\texit{\texi}\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\tex{ 4 - (-5) = 4 + 5 = 94 - 5 = 4 + (-5) = -1**8.** 35 - a for a = -50**9.** -29 - y for y = 32**10.** -28 - x for x = -15On a calculator, - means subtract and +/- will enter a negative number -61____13 85 To do 4 - (-5) on a calculator: To do 4 - 5 on a calculator: **11.** |19 - x| - |-15| for x = 24**12.** |y + 8| + |16| for y = -13Input: 4 - 5 +/- = Input: 4 | - | 5 | = | Display: 9 Display: -1 -10 21 **13.** |25 - t| - |4 - 9| for t = 15**14.** x - y for x = -10 and y = -5Complete to find the difference. Remember to change -5**1.** 7 - (-6) is the same as 7 + 6 = 13**15.** -m-n for m=-9 and n=-11 **16.** r-(-s) for r=-16 and s=-14is the same as -4 + - 3 = -72. -4 - 3 3. -2 - (-9) is the same as -2 + 9 = 717. Confucius, a Chinese philosopher, lived from 551 B.C. to is the same as 14 $_{-}$ $_{-}$ 16 = $_{-}$ 2 4. 14 - 16 479 B.C. How many years did Confucius live? **5.** 7 - (-10) is the same as 7 + 10 = 1718. Write a subtraction expression for three hundred forty-nine from two hundred twenty-six. 7. -5 - 12 is the same as -5 + 12 = -17226 - 349Find each difference. Use a calculator to check. 19. Simplify the answer in Exercise 18. **8.** $7 - 12 = \underline{-5}$ **10.** 17 - (-4) = <u>21</u> **9**. -3 - 8 = <u>-11</u> -123**11.** $-14 - (-3) = \underline{-11}$ **12.** $5 - 8 = \underline{-3}$ **13**. -6 - 4 = <u>-10</u> Copyright © by Holt, Rinehart and Winston. All rights reserved. 30 Holt Mathematics Copyright © by Holt, Rinehart and Winston. All rights reserved. 40 Holt Mathematics