Name _____

Practice
9-1

Using Integers to Represent Quantities

Tell whether each number is an integer. Write *Yes* or *No*.

1. 64 _____ **2.** −9.31 _____ **3.** $-2\frac{1}{2}$ _____ **4.** 16.7 _____

5. −37 _____ **6.** $\frac{27}{3}$ _____ **7.** 10.01 _____ **8.** $\frac{3}{8}$ _____

Use signs to write each number.

9. Spent $23 _____ **10.** Gained 12 yards _____

11. 14 degrees below zero _____ **12.** Profit of $640 _____

13. The distance from 0 to −4 on a number line _____

14. 7 units below the origin on a vertical number line _____

Write the opposite of each integer.

15. 42 _____ **16.** −163 _____ **17.** −24 _____ **18.** 69 _____

19. −39 _____ **20.** 7 _____ **21.** −572 _____ **22.** 18 _____

Find each absolute value.

23. $|-12|$ _____ **24.** $|23|$ _____ **25.** $|-42|$ _____ **26.** $|-58|$ _____

27. $|937|$ _____ **28.** $|-37|$ _____ **29.** $|2640|$ _____ **30.** $|1329|$ _____

31. Science The table gives the deepest recorded underwater dives of animals, as reported in the 1997 *Guinness Book of World Records*. Use an integer to represent the height of each animal during its dive. (The height at sea level is 0 ft.)

Animal	Depth (ft)	Height (ft)
Elephant Seal	5017	
Leatherback Turtle	3973	
Emperor Penguin	1584	
Human (without equipment)	428	

32. Science The average surface temperature on Mercury is 332°F. On Pluto, it is −355°F.

a. Find the absolute value of each temperature. _____

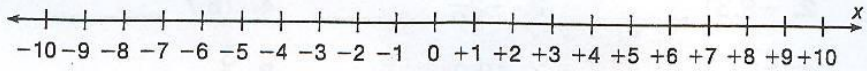
b. Which temperature is closer to 0°F? _____

Name _____

Practice 9-2

Comparing and Ordering Integers

Using the number line, write an inequality to tell which number is greater.



1. −3, 8 _____ **2.** 7, 5 _____ **3.** −9, −1 _____

4. −3, 0 _____ **5.** 9, −4 _____ **6.** 3, 4 _____

7. −4, −2 _____ **8.** −5, −6 _____ **9.** −7, 7 _____

Use >, <, or = to compare each pair of numbers.

10. −12 ◯ 17 **11.** −64 ◯ −46 **12.** 367 ◯ −376 **13.** −23 ◯ −32

14. −123 ◯ −321 **15.** 14 ◯ −15 **16.** 37 ◯ 73 **17.** 265 ◯ −265

18. 412 ◯ 421 **19.** −98 ◯ −89 **20.** −21 ◯ 21 **21.** −482 ◯ −284

22. |−65| ◯ |64| **23.** |15| ◯ |−14| **24.** |18| ◯ |−18| **25.** |−84| ◯ |−86|

Order each set of numbers from greatest to least.

26. −42, 24, 58, −16, 44, −46 _____

27. −$8, $11, −$12, $7, −$10, $9 _____

28. 0°, 6°, −16°, −26°, −36°, 46° _____

29. The chart shows the daily average minimum temperatures for fall and winter in McGrath, Alaska.

Month	Ave. Min. Temp. (°F)	Integer Temp. (°F)
October	18 above zero	
November	4 below zero	
December	15 below zero	
January	18 below zero	
February	14 below zero	
March	3 below zero	

a. Complete the table by representing each temperature as an integer.

b. Order the integers in a from least to greatest.

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