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. _____

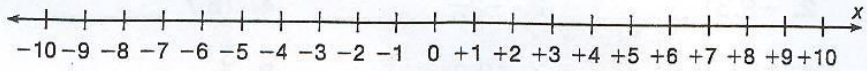
**b.** Which temperature is closer to 0°F? _____

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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