

6th Grade Math  
Pacing Guide / Assignments  
April 2 - April 9

ALL STUDENTS

- Watch the video posted on Google Classroom

ASSIGNMENTS DUE THURSDAY, APRIL 9 (see Google Classroom)

- Review-Comparing, Ordering and Graphing Integers worksheet
- 8.2 Practice (worksheet or those who have Big Ideas access may choose to do the assignment on-line if they prefer)
- 8.1 Puzzle Worksheet

ALL ASSIGNMENTS THAT ARE DONE ON PAPER SHOULD BE EMAILED TO MRS. PITTMAN. STUDENT/PARENTS MAY TAKE A PICTURE OF THE WORK AND SEND IT THROUGH EMAIL OR REMIND TEXT.

STUDENTS WHO DO NOT HAVE INTERNET ACCESS MAY CALL THE JR. HIGH OFFICE TO MAKE ARRANGEMENTS TO GET ASSIGNMENTS.

APRIL 10- APRIL 17 IS SPRING BREAK. THERE WILL BE NO NEW ASSIGNMENTS THAT WEEK. ASSIGNMENTS WILL RESUME MONDAY, APRIL 20.

# 8.1 Puzzle Time

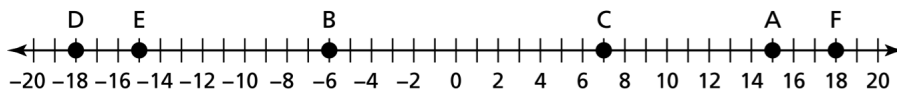
## What Do You Get When You Cross An Electrical Eel With A Sponge?

Write the letter of each answer in the box containing the exercise number.

Write a positive or negative integer that represents the situation.

1. Lisa puts 14 dollars into her piggy bank.
2. You are playing a game and must go back 4 spaces.
3. Claire loses 5 points on a spelling test.
4. The football team scores 21 points in the game.
5. Your dad gains 5 pounds.
6. Addison gets 4 bonus points on the science test.
7. The temperature drops 14 degrees.
8. You take 21 dollars out of your bank account.

Identify the location of the point on the number line.



- |       |       |
|-------|-------|
| 9. A  | 10. B |
| 11. C | 12. D |
| 13. E | 14. F |

**Answers**

O. 21

A. -18

R. -4

K. -14

B. -6

S. 7

B. 18

H. -5

O. 4

S. 14

C. -15

R. -21

S. 5

E. 15

11	3	6	13	7		12	10	1	4	8	14	9	2	5
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**Lesson 8.2** **Extra Practice**

Copy and complete the statement using  $<$  or  $>$ .

1.  $-4$  ?  $0$                       2.  $7$  ?  $0$                       3.  $3$  ?  $-3$   
 4.  $-6$  ?  $2$                       5.  $5$  ?  $9$                       6.  $-8$  ?  $-2$

7. Your friend compares the two integers.  
 Is your friend correct?  
 Explain your reasoning.

$2 < 5$ . So,  $2 < -5$ .

Order the integers from least to greatest.

8.  $0, -2, 2, 3, -3$                       9.  $1, -3, 4, -4, 2$   
 10.  $3, -4, 4, 5, -5$                       11.  $6, -3, 1, 4, -5$   
 12. A water pipe is 3 feet below the ground. A gas pipe is 8 feet below the ground. Which pipe is higher? Explain your answer.  
 13. An integer is between  $-1$  and  $-5$ . What is the least possible value of its opposite?

Tell whether the statement is *always*, *sometimes*, or *never* true. Explain.

14. A negative integer is greater than its opposite.  
 15. An integer is more than its opposite and less than 0.  
 16. An integer is less than its opposite.  
 17. Nine students choose integers. Seven of them are  $-16, 12, -13, -6, -5, 6,$  and  $1$ .  
 a. Order the numbers from least to greatest.  
 b. When all nine integers are ordered from least to greatest, the middle integer is  $-6$ . Describe the other two integers.

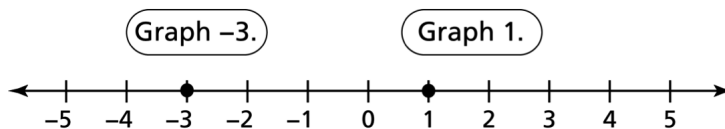
**Lesson**  
**8.2**
**Reteach**

On a horizontal number line, numbers to the left are less than numbers to the right. Numbers to the right are greater than numbers to the left.

On a vertical number line, numbers below are less than numbers above. Numbers above are greater than numbers below.

**EXAMPLE Comparing Integers**
**a. Compare 1 and -3.**

Graph each number on a horizontal number line.

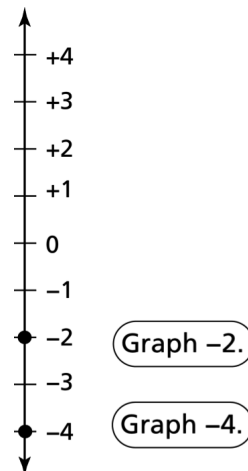


▶ 1 is to the right of  $-3$ . So  $1 > -3$ .

**b. Compare -4 and -2.**

Graph each number on a vertical number line.

▶  $-4$  is below  $-2$ . So,  $-4 < -2$ .


**EXAMPLE Ordering Integers**

Order  $-5, 0, 2, -2, 3$  from least to greatest.

Graph each integer on a number line.



Write the numbers as they appear on the number line from left to right.

▶ So, the order from least to greatest is  $-5, -2, 0, 2, 3$ .

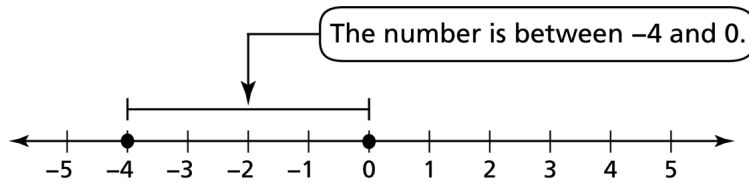
**Lesson 8.2 Reteach** (continued)

**EXAMPLE Reasoning with Integers**

A number is greater than  $-4$  and less than  $0$ . What is the greatest possible integer value of this number?

- A.  $-5$                       B.  $-2$                       C.  $-1$                       D.  $3$

The number must be to the right of  $-4$  and to the left of  $0$  on a horizontal number line.



The greatest possible integer value between  $-4$  and  $0$  is the integer farthest to the right of these values on the number line, which is  $-1$ .

► So, the correct answer is C.

Copy and complete the statement using  $<$  or  $>$ .

- |                        |                         |                         |
|------------------------|-------------------------|-------------------------|
| 1. $-7$ <u>  ?</u> $7$ | 2. $3$ <u>  ?</u> $-1$  | 3. $-2$ <u>  ?</u> $-4$ |
| 4. $-5$ <u>  ?</u> $0$ | 5. $-8$ <u>  ?</u> $-7$ | 6. $-4$ <u>  ?</u> $-3$ |

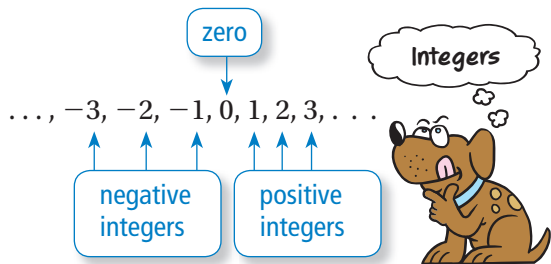
Order the integers from least to greatest.

- |                           |                            |
|---------------------------|----------------------------|
| 7. $3, -6, 6, 9, -9$      | 8. $5, -2, -4, -7, 3$      |
| 9. $10, -10, 30, 40, -40$ | 10. $8, -12, -22, 25, -28$ |
11. A number is between  $-3$  and  $-12$ .
- What is the least possible integer value of this number?
  - What is the greatest possible integer value of this number?

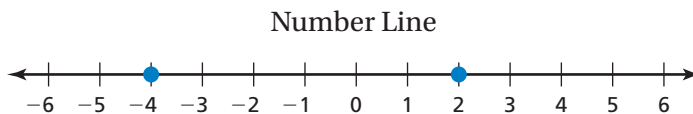
# REVIEW: Comparing, Ordering, and Graphing Integers

Name \_\_\_\_\_

## Key Concept and Vocabulary



## Visual Model



$-4 < 2$  because  $-4$  is to the left of  $2$  on the number line.

## Skill Examples

- $0 \leq 4$  "0 is less than or equal to 4."
- $-1 > -3$  " $-1$  is greater than  $-3$ ."
- $-2 < -1$  " $-2$  is less than  $-1$ ."
- $2 > -2$  " $2$  is greater than  $-2$ ."
- $3 \geq 2$  " $3$  is greater than or equal to  $2$ ."

## Application Example

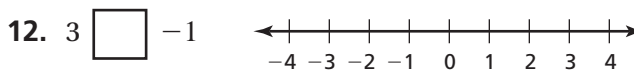
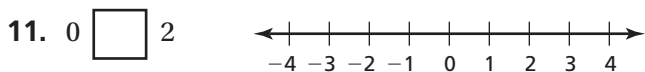
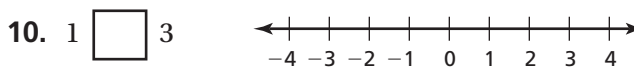
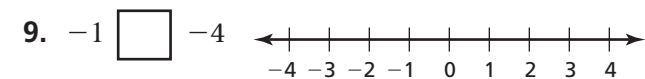
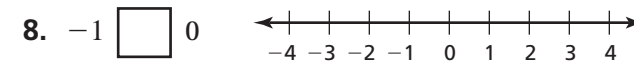
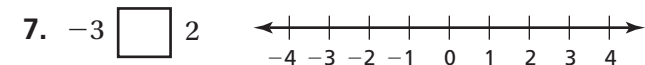
- The temperature in Seattle is  $4^\circ\text{F}$ .  
The temperature in Denver is  $-6^\circ\text{F}$ .  
Which temperature is greater?  
 $-6 < 4$  "  $-6$  is less than  $4$ ."  
❖ The temperature is greater in Seattle.



## PRACTICE MAKES PURR-FECT®

Check your answers at [BigIdeasMath.com](http://BigIdeasMath.com).

Graph the two numbers. Then compare them using  $<$  or  $>$ .



Order the temperatures from least to greatest.

13.  $-5^\circ\text{F}$ ,  $13^\circ\text{F}$ ,  $0^\circ\text{F}$ ,  $5^\circ\text{F}$ ,  $2^\circ\text{F}$ ,  $20^\circ\text{F}$
- \_\_\_\_\_

14.  $7^\circ\text{C}$ ,  $-4^\circ\text{C}$ ,  $-11^\circ\text{C}$ ,  $0^\circ\text{C}$ ,  $8^\circ\text{C}$ ,  $-12^\circ\text{C}$
- \_\_\_\_\_

Use an integer to describe the real-life situation.

15. A profit of \$5 \_\_\_\_\_      16. A depth of 8 ft \_\_\_\_\_      17. A decrease of  $5^\circ\text{F}$  \_\_\_\_\_  
A loss of \$5 \_\_\_\_\_      A height of 4 ft \_\_\_\_\_      An increase of  $8^\circ\text{F}$  \_\_\_\_\_

18. **BUSINESS LOSS** During its first week, a business had a loss that was greater than \$4, but less than \$6. Circle each integer that could represent this loss.

$-\$7$ ,  $-\$6$ ,  $-\$5$ ,  $-\$4$ ,  $-\$3$ ,  $-\$2$ ,  $-\$1$ ,  $\$0$ ,  $\$1$ ,  $\$2$ ,  $\$3$ ,  $\$4$ ,  $\$5$ ,  $\$6$ ,  $\$7$