Name_____ Date_____ Period_____

LESSON 7-1 · SESSION 2 · PRACTICE · FORM A

Integers in Real Situations

Learning target – I can interpret integers in real situations and find the opposite of an opposite. · 6.NS.C.5

REMEMBER

- The sign tells which way a change goes. **Gains, rises, deposits** are positive. **Losses, drops, withdrawals** are negative.
- −(−9) means **the opposite of −9**, which is 9.
- The **opposite of the opposite** of a number is the number you started with.

WORKED EXAMPLE

Find the opposite of the opposite of −16.

Step 1 First flip: −16 goes to 16.

Step 2 Second flip: 16 goes back to −16.

Answer **−16 (two flips return to the start)**

WORDS **opposite** *(opuesto)* · **opposite of the opposite** *(opuesto del opuesto)* · **integer** *(entero)*

PRACTICE

show your work · label units

1. Write an integer for each situation.

a. a 9-yard loss ____

b. a refund of 45 dollars ____

c. a drop of 6 degrees ____

d. 200 feet above sea level ____

2. Find each value.

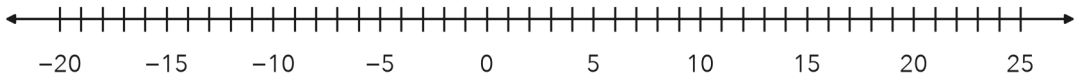
a. −(−16) = ____

b. opposite of the opposite of −7 ____

c. −(−21) = ____

d. −(8) = ____

3. **Airport Temperatures.** Morning lows: Denver 8 degrees, Oslo −8 degrees, Cairo 21 degrees, Anchorage −15 degrees.



a. Plot and label all four temperatures.

b. Which two cities show opposite temperatures? _____

c. How far from 0 is each of those two readings? _____ units

4. **Freezer Gauge.** A freezer gauge read −33 degrees, then changed to the opposite reading. What does it read now?

Hint *Flip −33 to the other side of 0.*

Show your work.

Answer_____ degrees

5. **Stairwell.** A worker walks 7 steps down into a basement, then climbs to the step that is the opposite. Write both integers.

Hint *Ground level is 0.*

Show your work.

Integers_____

6. **Two Flips.** Jonah says the opposite of the opposite of −26 is 26, because two negatives always make a positive. Is he right? Find the value.

Hint *Do one flip at a time.*

Show your work.

Value_____

7. **Quiz Show Scores.** Four players ended at −30, 30, 0, and −11 points. List the scores from farthest left to farthest right on a number line. Name the opposite pair.

Hint *Negative scores sit left of 0.*

Show your work.

Order_____

8. **Cave Camera.** A cave camera hangs at −36 meters (below the entrance). It moves to the opposite reading, then to the opposite of the new reading.

   a. Second reading: _____ m

   b. Third reading: _____ m

   c. What does 0 stand for here? _____

FIND THE ERROR

explain the mistake, then fix it

9. **Kwame's Work.** A diver was at −19 meters. Kwame wrote: "The opposite of the opposite of −19 is 19, because two opposites make it positive." Explain his mistake. Then give the correct value.

_____

_____

TEST PRACTICE

choose the best answer

10. −(−45) equals –

A −45 **B** 45 **C** 0 **D** 1/45

11. A withdrawal of 75 dollars is written as –

A 75 **B** −75 **C** 0 **D** −(−75)

SELF-CHECK CODE *find your answer · copy its letter into that problem's box · spell a math word*

8 O	−36 E	36 T	33 S	16 P	26 Q	−9 O	−26 I	−7 P	−33 Z

#1a	#2a	#2b	#3c	#4	#6	#8a	#8b

CHECK YOURSELF ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #___