

1. Copy homework into your planner.
2. update table of contents.
3. Open your notebook to page 3 and have your homework visible for me to check.
4. Complete the warm up problems on the

BACK OF PAGE 2.

WARM UP

Circle the perfect square values.

36

72

169

200

225

6.6

Simplify.

13.13

15.15

$\sqrt{121}$  11

$\sqrt{196}$  14

# As the Cat Dressed Up as a Cowboy Walked into a Saloon with His Arm in a Sling, What Did He Say?




Find each answer in the appropriate set of boxes at the bottom of the page. Write the letter of the exercise in the box containing the answer.

I. Find the length of one side ( $s$ ) of each square.

(I)   
 $s = 5$  m

(O)   
 $s = 8$  cm

(M)   
 $s = 20$  ft

II. Find the square root.

- (T)  $\sqrt{49} = 7$     (O)  $\sqrt{16} = 4$     (E)  $\sqrt{100} = 10$     (N)  $\sqrt{81} = 9$   
 (R)  $\sqrt{36} = 6$     (C)  $\sqrt{4} = 2$     (I)  $\sqrt{144} = 12$     (G)  $\sqrt{1} = 1$   
 (H)  $\sqrt{900} = 30$     (L)  $\sqrt{2,500} = 50$     (F)  $\sqrt{6,400} = 80$     (K)  $\sqrt{10,000} = 100$

III. Simplify.

- (O)  $15^2 = 225$     (W)  $11^2 = 121$     (T)  $25^2 = 625$   
 (A)  $\sqrt{225} = 15$     (C)  $\sqrt{121} = 11$     (W)  $\sqrt{625} = 25$   
 (N)  $\sqrt{16} + \sqrt{9} = 7$     (A)  $\sqrt{36} + \sqrt{64} = 14$     (M)  $\sqrt{25} - \sqrt{9} = 2$   
 (S)  $\sqrt{16 + 9} = 5$     (M)  $\sqrt{36 + 64} = 10$     (H)  $\sqrt{25 - 9} = 4$   
 (Y)  $\sqrt{0.25} = 0.5$     (H)  $\sqrt{0.81} = 0.9$     (P)  $\sqrt{0.01} = 0.1$

Answers for Part I and Part II

12 20 11 50 4 2 100 5 9 1 60 80 8 5 3 7 30 10 90  
 I M C O O K I N G F O R T H E

Answers for Part III

2 14 7 18 12 0.9 225 12 5 4 11 625 0.4 19 0.5 715 21 5 25  
 M A N W H O S H O T M Y P A W



Name:		Date:																	
Topic:		Class:																	
Main Ideas/Questions	Notes/Examples																		
What are integers?	Whole numbers and their opposites: -3, -2, -1, 0, 1, 2, 3...																		
The Number Line																			
Writing Integers	<p>Directions: Write an integer for each situation.</p> <table border="0"> <tr> <td>1. a 3-yard <u>gain</u></td> <td><u>3</u></td> <td>2. 8 degrees <u>below</u> normal</td> <td><u>-8</u></td> </tr> <tr> <td>3. a \$75 <u>deposit</u></td> <td><u>75</u></td> <td>4. a 21-pound <u>loss</u></td> <td><u>-21</u></td> </tr> <tr> <td>5. 5 miles <u>above</u> sea level</td> <td><u>5</u></td> <td>6. a \$40 <u>deduction</u></td> <td><u>-40</u></td> </tr> <tr> <td>7. 2 strokes <u>under</u> par</td> <td><u>-2</u></td> <td>8. a \$15 <u>surcharge</u></td> <td><u>15</u></td> </tr> </table>			1. a 3-yard <u>gain</u>	<u>3</u>	2. 8 degrees <u>below</u> normal	<u>-8</u>	3. a \$75 <u>deposit</u>	<u>75</u>	4. a 21-pound <u>loss</u>	<u>-21</u>	5. 5 miles <u>above</u> sea level	<u>5</u>	6. a \$40 <u>deduction</u>	<u>-40</u>	7. 2 strokes <u>under</u> par	<u>-2</u>	8. a \$15 <u>surcharge</u>	<u>15</u>
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Comparing & Ordering Integers	<p>Directions: Place a &lt; or &gt; in the circle to complete each statement.</p> <table border="0"> <tr> <td>9. -12 <input type="radio"/> 5</td> <td>10. -7 <input type="radio"/> -23</td> <td>11. 1 <input type="radio"/> -6</td> <td>12. -18 <input type="radio"/> -15</td> </tr> <tr> <td>13. 20 <input type="radio"/> -25</td> <td>14. -13 <input type="radio"/> 0</td> <td>15. -36 <input type="radio"/> -40</td> <td>16. -29 <input type="radio"/> -28</td> </tr> </table> <p>Directions: Order each set of integers from least to greatest.</p> <table border="0"> <tr> <td>17. {4, 0, -9, 2, -5, -1, 13}</td> <td><u>-9, -5, -1, 0, 2, 4, 13</u></td> </tr> <tr> <td>18. {-27, 21, -24, 16, -11, -8}</td> <td><u>-27, -24, -11, -8, 16, 21</u></td> </tr> <tr> <td>19. {12, -4, 9, -10, -18, 15}</td> <td><u>-18, -10, -4, 9, 12, 15</u></td> </tr> <tr> <td>20. {-52, -65, 37, -33, 48, -31}</td> <td><u>-65, -52, -33, -31, 37, 48</u></td> </tr> </table>			9. -12 <input type="radio"/> 5	10. -7 <input type="radio"/> -23	11. 1 <input type="radio"/> -6	12. -18 <input type="radio"/> -15	13. 20 <input type="radio"/> -25	14. -13 <input type="radio"/> 0	15. -36 <input type="radio"/> -40	16. -29 <input type="radio"/> -28	17. {4, 0, -9, 2, -5, -1, 13}	<u>-9, -5, -1, 0, 2, 4, 13</u>	18. {-27, 21, -24, 16, -11, -8}	<u>-27, -24, -11, -8, 16, 21</u>	19. {12, -4, 9, -10, -18, 15}	<u>-18, -10, -4, 9, 12, 15</u>	20. {-52, -65, 37, -33, 48, -31}	<u>-65, -52, -33, -31, 37, 48</u>
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Absolute Value	<p>The distance a number and zero.</p> <p>Notation: <math> x </math> ← Read as: "The absolute value of x."</p> <p>Directions: Evaluate each expression.</p> <table border="0"> <tr> <td>21. <math> 7 </math></td> <td><u>7</u></td> <td>22. <math> -20 </math></td> <td><u>20</u></td> <td>23. <math> -4 </math></td> <td><u>4</u></td> </tr> <tr> <td>24. <math> 18 </math></td> <td><u>18</u></td> <td>25. <math> 35 </math></td> <td><u>35</u></td> <td>26. <math> -11 </math></td> <td><u>11</u></td> </tr> </table> <p>Always positive</p>			21. $ 7 $	<u>7</u>	22. $ -20 $	<u>20</u>	23. $ -4 $	<u>4</u>	24. $ 18 $	<u>18</u>	25. $ 35 $	<u>35</u>	26. $ -11 $	<u>11</u>				
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NAME \_\_\_\_\_

DATE \_\_\_\_\_

PERIOD \_\_\_\_\_

**Problem-Solving Practice****Integers and Absolute Value**

SCUBA For Exercises 1–3, use the table below. The table shows the depths of scuba diving attractions on a certain dive tour.

Attractions	Depth (ft)
Coral reef	-22
Modern shipwreck	-98
Old shipwreck	-108
Cave	-16

1. What is the absolute value of the depth of the coral reef?	2. Hiromi took pictures of both shipwrecks. Is the absolute value of the depth of the modern shipwreck greater than or less than the absolute value of the depth of the old shipwreck? $98 < 108$
3. Sandra swam in the cave and around the coral reef. Which of the two attractions is closer to the surface of the water?	4. <b>SCIENCE</b> The liquid in Beaker A has a temperature of $-4^{\circ}\text{C}$ . The liquid in Beaker B has a temperature of $2^{\circ}\text{C}$ . Which temperature has the greater absolute value? A (4) 2
5. <b>STEPS</b> Catesby ran up 16 flights of stairs. Write an integer to represent this situation.	6. <b>CELL PHONE</b> Nazir used more minutes on his cell phone than his plan allows. He now owes his parents \$15. Write an integer to represent this debt.
7. <b>CAVE</b> The entrance of a cave is at an elevation of 14 meters. The lowest part of the cave is at an elevation of $-86$ meters. Which elevation has the lower absolute value?	8. <b>MONEY</b> Larry lost 45 cents when it fell out of his jacket pocket while he was playing. Write an integer to represent this loss.

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**Course 1** • Sequences, Inequalities, and Integers

## Integers

### PRACTICE

1. Which statement is true?

- A.  $-82 > 85$
- B.  $4,117 < -2,654$
- C.  $-601 > -456$
- D.  $-72,643 > -81,249$

2. Which integer is less than -7?

- F. -9
- G. -6
- H. 0
- J. 8

4. Circle all of the integers below.

-4	$2^3$	-0.3
$\frac{8}{2}$	$\frac{3}{6}$	2.2

5. Which list of integers is ordered from greatest to least?

- A. -17, -16, -15
- B. -15, -16, -17
- C. -17, -15, -5
- D. -16, -17, -15

6. Write an integer to represent each situation:

- a) 10 degrees above zero
- b) a loss of 16 dollars
- c) a gain of 5 points
- d) 8 steps backward

3. The temperatures this week were recorded in the chart below.

Day	Temperature
Monday	-6
Tuesday	-11
Wednesday	-3
Thursday	-9
Friday	-4

On which day was the temperature the warmest?

- A. Monday
- B. Tuesday
- C. Wednesday
- D. Friday

7. Which expression has the smallest value?

- A.  $|-19|$
- B.  $|-34|$
- C.  $|11|$
- D.  $|47|$

8. Which statement is true?

- F.  $-17 < -19$
- G.  $-13 > -20$
- H.  $-11 > -9$
- J.  $-6 < -8$

9.  $|-5| + |2| =$

- A. -7
- B. -3
- C. 3
- D. 7

10. Which of the following is not an integer?

- F. 9
- G. 0
- H. 0.1
- J. -2



NAME \_\_\_\_\_ DATE \_\_\_\_\_ PERIOD \_\_\_\_\_

## Homework Practice

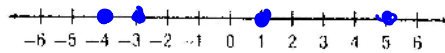
### Integers and Absolute Value

Write an integer for each situation.

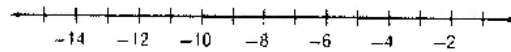
- a drop of 200 feet
- an expansion of 3 cubic meters
- earn 10 points
- reduce by 8 inches

Graph each set of integers on a number line.

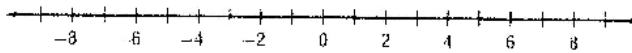
5.  $\{-4, -3, 1, 5\}$



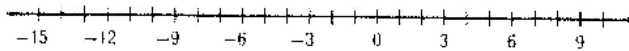
6.  $\{-15, -12, -9, -2\}$



7.  $\{8, 3, -7, -5\}$



8.  $\{-14, -7, 10, -1\}$



Evaluate each expression.

- $|31| + |-5|$
- $|-28| - |-1|$
- $|44| + |-34|$
- $|-16| - |4|$
- $|11 - 2|$
- $|-101| - |-1|$
- BUSINESS** Ms. Solorio's small business had a profit of \$460 on Monday. Write an integer to represent this profit.
- CAVING** The end of a cave is 380 meters below the surface of the earth. Write an integer to represent this depth.
- TEMPERATURES** The low temperatures for three consecutive days were  $-5^{\circ}\text{F}$ ,  $3^{\circ}\text{F}$ , and  $4^{\circ}\text{F}$ . Which temperature has the greatest absolute value?
- ELEVATIONS** The lowest elevation in New Orleans, Louisiana, is  $-8$  feet. The lowest elevation in Long Beach, California, is  $-7$  feet. Which city has the lower elevation?

For more practice, go to [www.connected.mcgraw-hill.com](http://www.connected.mcgraw-hill.com).