Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Units: \_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_

**6th Grade CCA Unit 1: Integers Study Guide**

**No Calculator!**

**Total Score \_\_\_\_\_\_\_\_\_\_/23**

**Directions: Carefully read and follow the directions for each section. Remember to SHOW YOUR WORK and write your answer on the line provided.**

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| --- | --- |
| **Number Sense: Demonstrates knowledge of numbers, operations, properties, and relationships.** | |
| **3 points**  **LT1**  **Score:** | **Simplify each absolute value expression.**  1.) |-6| 2.) -|-10| 3.) |-3 - 5|  1.) \_\_\_\_\_\_\_\_\_\_  2.) \_\_\_\_\_\_\_\_\_\_  3.) \_\_\_\_\_\_\_\_\_\_ |
| **1 point**  **LT1**  **Score:** | 4.) In your own words, define **absolute value.** |
| **Learning Target #1 Score: Add points from 1-4: \_\_\_\_\_\_\_ /4** | |
| **3 points**  **LT2**  **Score:** | **Simplify each integer expression. Show ALL of your work.**  5.) -4 + (-7) 6.) -11 + 5 7.) -3 + 12 + -9  5.) \_\_\_\_\_\_\_\_\_\_  6.) \_\_\_\_\_\_\_\_\_\_  7.) \_\_\_\_\_\_\_\_\_\_ |
| **1 point**  **LT2**  **Score:** | **Explain.**  8.) Mr. Diveley said that the answer to -8 + 6 is 2. Why is his answer incorrect? Using mathematical language, explain why his answer is wrong and how to go about determining the correct answer. |
| **Learning Target #2 Score: Add points from 5-8: \_\_\_\_\_\_\_ /4** | |
| **4 points**  **LT3**  **Score:** | **Simplify each integer expression. Show ALL of your work.**  9.) 3 - 11 10.) -4 – (-8) 11.) -7 – 2  9.) \_\_\_\_\_\_\_\_\_\_  10.) \_\_\_\_\_\_\_\_\_\_  12.) -4 – (-9) + -2  11.) \_\_\_\_\_\_\_\_\_\_  12.) \_\_\_\_\_\_\_\_\_\_ |
| **1 point**  **LT3**  **Score:** | **Solve.**  **13.)** You start hiking at an elevation that is 80 meters below base camp. You increase your elevation by 42 meters. What is the new elevation with respect to base camp?  13.) \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| **Learning Target #3 Score: Add points from 9-13: \_\_\_\_\_\_\_ /5** | |
| **2 points**  **LT4**  **Score:** | **Solve.**  14.) (-5)(-4) 15.) -1 · -1 · -1 · 1  14.) \_\_\_\_\_\_\_\_\_\_  15.) \_\_\_\_\_\_\_\_\_\_ |
| **1 point**  **LT4**  **Score:** | 16.) You are accumulating points for a class party. You lose 3 points every time someone forgets their homework. Over the past week, four people have forgotten their homework. What integer represents your change in points?  16.) \_\_\_\_\_\_\_\_\_\_ |
| **2 points**  **LT4**  **Score:** | Evaluate.  17.) (-3)2 18.) -42 · 2  17.) \_\_\_\_\_\_\_\_\_\_  18.) \_\_\_\_\_\_\_\_\_\_ |
| **Learning Target #4 Score: Add points from 14-18: \_\_\_\_\_\_\_ /5** | |
| **3 points**  **LT5**  **Score:** | 19.) 20.)  21.)  19.) \_\_\_\_\_\_\_\_\_\_  20.) \_\_\_\_\_\_\_\_\_\_  21.) \_\_\_\_\_\_\_\_\_\_ |
| **1 pt**  **LT5**  **Score:** | 22.) The table shows the temperature during a given week in January.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Time | Monday | Tuesday | Wednesday | Thursday | Friday | | Temperature | -10 | -8 | 4 | 6 | -2 |   Based on the given five temperatures, what is the average temperature for the week?  22.) \_\_\_\_\_\_\_\_\_\_ |
| **1 pt**  **LT5**  **Score:** | 23.) Evaluate the expression when a = -4 and b = -3  23.) \_\_\_\_\_\_\_\_\_\_ |
| **Learning Target #5 Score: Add points from 19-23: \_\_\_\_\_\_\_ /5** | |

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| **1.) 6** | **2.) -10** | **3.) 8** |
| **4.) Distance a number is away from zero.** | | |
| **5.) -11** | **6.) -6** | **7.) 0** |
| **8.) Start at -8 on a number line, if you go to the right 6 spaces, you will be at -2, not 2.** | | |
| **9.) -8** | **10.) 4** | **11.) -9** |
| **12.) 3** | **13.) -38 m** | **14.) 20** |
| **15.) -1** | **16.) -12** | **17.) 9** |
| **18.) -32** | **19.) 11** | **20.) -3** |
| **21.) -6** | **22.) -2°** | **23.) -4** |