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 · 217.) \_\_\_\_\_\_\_\_\_\_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$$\frac{9a}{b^{2}}$$23.) \_\_\_\_\_\_\_\_\_\_ |
| **Learning Target #5 Score: Add points from 19-23: \_\_\_\_\_\_\_ /5** |

|  |  |  |
| --- | --- | --- |
| **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** |