**Powers Assignment (Sections 2.1, 2.2, 2.3) Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Due: Fri, Oct. 12 Period: \_\_\_\_\_**

**\_\_\_\_**

**25**

**Part A: Multiple Choice (Value: 10)**

Indicate your final answer on the blank to the left of the question number.

\_\_\_\_ 1. Write the base of .

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| a. | 5 | b. | 5 | c. |  | d. | 3 |

\_\_\_\_ 2. Write as repeated multiplication.

|  |  |  |  |
| --- | --- | --- | --- |
| a. |  | c. |  |
| b. |  | d. |  |

\_\_\_\_ 3. Write  as a power.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| a. |  | b. |  | c. |  | d. |  |

\_\_\_\_ 4. Evaluate: 

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| a. | 256 | b. | 16 | c. | 16 | d. | 256 |

\_\_\_\_ 5. Evaluate: 107

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| a. | 100 000 000 | b. | 10 000 000 | c. | 1 000 000 | d. | 70 |

\_\_\_\_ 6. Write 1 000 000 as a power of 10.

|  |  |
| --- | --- |
| a. |  |
| b. | 105 |
| c. |  |
| d. | 106 |

\_\_\_\_ 7. Evaluate: 

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| a. | 8 | b. | 0 | c. | 1 | d. | –1 |

\_\_\_\_ 8. Write  in standard form.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| a. | 35 746 | b. | 3574 | c. | 35 741 | d. | 35 740 |

\_\_\_\_ 9. Evaluate: 

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| a. | –8 | b. | 16 | c. | –32 | d. | 32 |

\_\_\_\_ 10. Evaluate: 

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| a. | –34 | b. | –35 | c. | 36 | d. | 73 |

**Part B: Follow instructions and show ALL of your work! (Value: 15)**

1. Write 805 076 using powers of 10.

2. Write  in standard form.

3. Evaluate: 

4. Evaluate: 

5. Evaluate: 