**Test #4 Review 1 – Answer Key**

**Answer Section**

**MULTIPLE CHOICE**

 1. 72

 2. -5

 3. -256

 4. 10 000 000

 5. -1

 6. 88

 7. 115 ÷ 95

 8. ii and iii

 9. -14.2

 10. -14.9

**SHORT ANSWER**

 13. ANS:

The answers for i and ii are positive.

 14. ANS:





 15. ANS:

|  |  |  |  |
| --- | --- | --- | --- |
| **Power** | **Base** | **Exponent** | **Repeated Multiplication** |
|  | 5 | 3 |  |
|  | 3 | 4 |  |
|  | 7 | 3 |  |
|  | 6 | 5 |  |

 16. ANS:

10 000 000 = 107

 17. ANS:



 18. ANS:



 19. ANS:

 = 

 20. ANS:

1.5

 21. ANS:



 22. ANS:



**PROBLEM**

 23. ANS:

a) Replace  with a “” sign.

b) Replace  with a “+” sign.

c)  is always negative.

d) Replace  with a “” sign.

Not all products can be made positive.

In part c, there is an even number of factors in the power .

 is always positive, which means  is always negative.

 24. ANS:

Each person is to be given 10 L of safe drinking water.

1 billion 



The amount of water required is about , or 10 000 000 000 L.

 25. ANS:



 26. ANS:



 27. ANS:

Errors:

In line 1, the exponents of 3 should be added instead of multiplied.

In line 3, the exponents of 3 should be multiplied instead of added.

Correction:



 28. ANS:

