Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ***Study Guide: Exponent Test***

*Explain why the following problems are incorrect:*

*(What was the person thinking? How did they incorrectly solve the problem?)*

**32 x 37 = 314**

Why is it incorrect?

Show the right answer and prove why:

**48 / 42 = 44**

Why is it incorrect?

Show the right answer and prove why:

**(62)3 = 65**

Why is it incorrect?

Show the right answer and prove why:

**83 x 8-2 = 81**

Why is it incorrect?

Show the right answer and prove why:

**(-n3t) (-8n2t2) = -8nt**

Why is it incorrect?

Show the right answer and prove why:

**(-k2)2 = - k4**

Why is it incorrect?

Show the right answer and prove why:

**(4u3k)2 = 4u5k2**

Why is it incorrect?

Show the right answer and prove why:

**3-1 = -3**

Why is it incorrect?

Show the right answer and prove why:

**0.00052 = 5.2x 10-3**

Why is it incorrect?

Show the right answer and prove why:

**8.2 x 106 = 820,000**

Why is it incorrect?

Show the right answer and prove why:

**(7.6 x 10-4) (6 x 10-4) = 4.56 X 10-9**

Why is it incorrect?

Show the right answer and prove why:

**( 3 x 103 ) / ( 1.5 x 10-7 ) = 2 x 10-4**

Why is it incorrect?

Show the right answer and prove why:

**A 25 foot ladder is leaned against a wall. If the base of the ladder is 7 feet from the wall, how high up the wall will the ladder reach?**

*Work:* a2 + b2 = c2 72 + 252 = c2 c2 = 49 + 625 c2 = 674 c = 26 ft

***The ladder is approximately 26 ft. tall.***

Why is it incorrect?

Show the right answer and prove why:

*Create a visual representation of the number systems:*

*Whole, Real, Irrational, Integers, Rational and* ***briefly define each****…*

*Review questions may include:*

*Angles / like terms / factoring / solving equations with variables on both sides*