

Name _____ Date _____ Per _____

Percent Error Practice Problems

- Show all work, including a formula and correct units after EVERY number on EVERY problem, or you will not receive credit for that problem
- 1) A student estimated a mass to be 250g, but upon carefully measuring it, found the actual mass to be 240g. What is the percent error?
 - 2) A student measured the temperature of boiling water and got an experimental reading of 97.5°C. What is the percent error?
 - 3) An experimental measurement was taken of 10.4 mL and the actual measurement was 9.7 mL. What is the percent error?
 - 4) The experimental calculation of the specific heat of aluminum was found to be .156 cal/g°C, but the actual value was given as .185 cal/g°C. What is the percent error?
 - 5) Experimental = 62.5 g and accepted value = 65.2 g. Solve for percent error.

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Percent Error and Percent Increase- Matching Worksheet

Match the word problems to their answers. Write the letter of the answer that matches the problem. Note that \$ have been removed from answers.

- _____ 1. Margaret sold shoes for \$200. Margaret increases their sale price by 100%. What is the sales price of the pair of shoes? a. 39.6
- _____ 2. Jasmine was expected to get \$150 for her bonus, but she only got \$100. What was the percent error? b. 25
- _____ 3. Jewel buys a toy horse for \$36. The store increases their purchase price by 10%. What is the sales price of the toy horse? c. 96
- _____ 4. Maya counts 55 passengers on the bus. There were only 50 passengers on the bus. What is Maya's percent error? d. 400
- _____ 5. Zoe feels like she walked 20 miles. But she actually only walked 16 miles. What is Zoe's percent error? e. 132
- _____ 6. Willow thought he read 23 pages of his book. But he only read 20 pages of his book. What is Willow's percent error? f. 15
- _____ 7. Chloe buys a globe for \$80. The store increases their purchase price by 20%. What is the new price of the globe? g. 10
- _____ 8. Lyric wants to purchase a radio for \$120. The store keeper increases the purchase price by 10%. What is the sales price of the radio? h. 50

