**Puzzling Percents – 1**

Two students got together to discuss their homework. On two problems, they were surprised to find that they had done the problem differently, but got the same answer. The two problems and the solution methods are shown below. For each one, answer the following questions: Would both of the methods always work? If so, explain why they are equivalent. If not, explain why.

**A coat is priced at $79 plus 7% tax. What is the total cost with tax?**

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| **Robert’s Solution** | **Denae’s Solution** |
| 79 x .07 = 5.5379 + 5.53 = 84.53Total cost of the coat is $84.53. | 79 x 1.07 = 84.53Total cost of the coat is $84.53 |

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