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Comparing Decimals Using Knowledge of Coin Values, Practice Set B

Name:

Date:

For each set of decimals, circle if the comparison is *true* or *false*. Then *explain your thinking*. Use your knowledge of coin values and fractions of a dollar to help you in your quest!

1. 0.38 > 0.4 **True or False** **Explain:**	**2. 0.5 = 1.5** **True or False** **Explain:**
3. 8.5 > 8.65 **True or False** **Explain:**	**4. 0.2 = 0.20** **True or False** **Explain:**

5. The Decimal Detective believes that 3 pennies will be enough to pay for the pencil that costs $0.3. Do you agree with the Decimal Detective? Explain.

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Decimal Detective, Practice Set B, Answer Key

For each set of decimals, circle if the comparison is *true* or *false*. Then *explain your thinking*. Use your knowledge of coin values and fractions of a dollar to help you in your quest!

1. 0.38 > 0.4 True or (False) **Explain:** *This is false because 0.4 is equal to 0.40 and 0.38 is less than 0.40. Students may also say that 0.40 is greater than 0.38. Put into the context of money, $0.40 is greater than $0.38.*	**2. 0.5 = 1.5** True or (False) **Explain:** *This is false because 0.5 is less than 1.5. Put into the context of money, in the decimal 0.5 there is 0 whole dollars, whereas 1.5 has 1 whole dollar and 1 whole dollar is greater than 0 dollars.*
3. 8.5 > 8.65 True or (False) **Explain:** *This is false because 8.5 is equivalent to 8.50 and 8.50 is less than 8.65. Put into the context of money, if students recognize that they both have 8 whole dollars, then they should recognize that 50 cents is less than 65 cents.*	**4. 0.2 = 0.20** (True) or False **Explain:** *This is true because 0.2 is equivalent to 0.20, therefore 0.20 = 0.20. Put into the context of money, $0.20 is equal to $0.20.*

5. The Decimal Detective believes that 3 pennies will be enough to pay for the pencil that costs $0.3. Do you agree with the Decimal Detective? Explain.

I disagree with the decimal detective because 3 pennies is written like $0.03 in money. If the pencil costs $0.3, that is also equivalent to $0.30 or 3 dimes. Therefore, the Decimal Detective would be $0.27 short when trying to pay for the pencil.