**Biconditional Statements -TEST**

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| **1.** | |  |  | | --- | --- | | **Given:** | **a: y - 6 = 9** | | **b: y = 15** | | **Problem:** | **The biconditional ahttps://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/biconditional_transp.gifb represents which of the following sentences?** | |
|  | Začátek formuláře  If y - 6 = 9, then y = 15. y - 6 = 9 if and only if y = 15. If y = 15, then y - 6 = 9. None of the above.  RESULTS BOX:  Konec formuláře |

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| **2.** | |  |  | | --- | --- | | **Given:** | **r: 11 is prime.** | | **s: 11 is odd.** | | **Problem:** | **The biconditional rhttps://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/biconditional_transp.gifs represents which of the following sentences?** | |
|  | Začátek formuláře  If 11 is prime, then 11 is odd. If 11 is odd, then 11 is prime. 11 is prime iff 11 is odd. None of the above.  RESULTS BOX:  Konec formuláře |

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| **3.** | |  |  | | --- | --- | | **Given:** | **xhttps://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/conditional_transp.gify** | | **yhttps://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/conditional_transp.gifx** | | **Problem:** | **If both of these statements are true then which of the following must also true?** | |
|  | Začátek formuláře  (xhttps://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/conditional_transp.gify)https://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/and.gif(yhttps://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/conditional_transp.gifx) xhttps://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/biconditional_transp.gify x iff y All of the above.  RESULTS BOX:  Konec formuláře |

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| **4.** | |  |  | | --- | --- | | **Given:** | **mhttps://www.mathgoodies.com/sites/all/modules/custom/lessons/images/symbolic_logic/images/biconditional_transp.gifn is biconditional** | | **Problem:** | **Which of the following is a true statement?** | |
|  | Začátek formuláře  m is the hypothesis m is the conclusion n is a conditional statement n is a biconditional statement  RESULTS BOX:  Konec formuláře |

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| **5.** | **Which of the following statements is biconditional?** |
|  | Začátek formuláře  I am sleeping if and only if I am snoring. Mary will eat pudding today if and only if it is custard. It is raining if and only if it is cloudy. None of the above.  RESULTS BOX:  Konec formuláře |