Name:	Date:
Teacher:	Period:

Evaluating Compound Conditionals

Determine if the following statements evaluate to **true** or **false**. Assume in every case that the two variables **age** and **day** have been initialized with the values shown.

var age = 16; var day = "Monday"; 1. (day == "Mon") || (day == "Monday") (true) (false) 2. (day == "Tues") || (day == "Tuesday") (false) (true) 3. (day == "Tues") || (5 < 10) (true) (false) 4. (age > 10) && (age < 20) (true) (false) 5. !(age > 10) (true) (false) 6. (day == "Tuesday") || (age < 12) (true) (false) 7. !((age == 16) || (day == "Monday")) (true) (false) 8. !((age == 16) && !(day == "Monday")) (true) (false) 9. ((age == 16) && (day == "Monday")) && (day == "Tuesday") (true) (false) 10. ((age == 16) && (day == "Monday")) || (day == "Tuesday") (true) (false) 11. ((age > 10) && ((age + 5) > 20)) (true) (false)

Teacher Instructions

Estimated Time: 30 - 45 minutes

Purpose: To introduce some programming syntax and promote logical thinking.

Instructions: Teach the students/have a lesson about conditional statements. A conditional statement is a statement that only runs under certain conditions. Also, give the students an introduction about what each symbol represents: ==, &&, ||, !, etc. Do a few examples with the students before assigning the worksheet. We have a powerpoint to help explain this concept.

Answers:

- 1. True
- 2. False
- 3. True
- 4. True
- 5. False
- 6. False
- 7. False
- 8. True
- 9. False
- 10. True
- 11. True