

Name Will Marsh
PSU ID(abc1234) wem5115
Class (Section) IST 140.2

Practice Problems 2.1

Variable Assignments

VARIABLE ASSIGNMENT

Answer each question on the line provided.

- 1) Declare an integer num. int num;
- 2) Initialize the variable num so that it has the value of 78. Assume it was declared as an integer. num = 78;
- 3) Declare and initialize a variable named height that has a value of 5.7 int height;
height = 5.7

For each question, decide if the variable in the statement are declared, initialized, or both.

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|------------------------|--------------------|-------------------------|--------------------|
| 4) String word; | <u>Declared</u> | 5) int classSize = 48; | <u>Both</u> |
| 6) boolean match; | <u>Declared</u> | 7) word = "Happy"; | <u>Initialized</u> |
| 8) double area = 56.0; | <u>Initialized</u> | 9) total = 34 + 12 + 2; | <u>Initialized</u> |
| 10) match = true; | <u>Initialized</u> | 11) double grams; | <u>Initialized</u> |

JAVA ARITHMETIC

Each problem has num described by the expression in each problem. On the line provided, what is the numerical value of num(assume the type of variable is appropriate for num)? Make sure you appropriately distinguish between an int (such as 7) and a double (such as 7.0). For example if the problem was num = 1 + 3; then the answer would be num == 4.

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|----------------------|----------------------|--------------------|----------------------|
| 12) num = 3 / 2; | <u>num = 1</u> | 13) num = 3.0 / 2; | <u>num (int) = 1</u> |
| 14) num = 3.0 / 2.0; | <u>num (int) = 1</u> | 15) num = 3 % 2; | <u>num = 1</u> |
| 16) num = 3 - 2; | <u>num = 1</u> | 17) num = 3.0 - 2; | <u>num = 1</u> |

Assume num is an int that has a value of 35 for each problem. What would be the value of num after each statement?

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|--------------------|-----------------|----------------|-----------------|
| 18) num++; | <u>num = 36</u> | 19) num += 12; | <u>num = 47</u> |
| 20) num = num + 4; | <u>num = 39</u> | 21) num--; | <u>num = 34</u> |
| 22) num *= 2; | <u>num = 70</u> | 23) num %= 6; | <u>num = 34</u> |

num = 34

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More Mod Practice

What is the integer answer to each expression?

24) $5 \div 2$ 2

26) $13 \div 3$ 4

28) $63 \div 9$ 7

25) $5 \% 2$ 1

27) $13 \% 3$ 1

29) $63 \% 9$ 0