

## Quiz 1

PROBLEM SOLVING IN C  
(CSCE 105, SPRING 2006)

URL: <http://www.cse.unl.edu/~cstrobe/csce105s06/>

*11th January, 2006*

(20 points)

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Name :  
Course No : **CSCE105**

1. (1 point each): Evaluate the following formulas if  $x = 3$ ,  $y = -9$ , and  $z = 2$ :

(a)  $2x^2 + 7y$

(b)  $\sqrt{|y|}$

(c)  $z^z + x^0$

(d)  $z^{-2}$

(e)  $x/z + -y$

2. (1 point each)

Solve the following equations for  $x$  (The above values are no longer valid):

(a)  $1/x + y = 2z$

(b)  $xy = 2u/v$

(c)  $x^2 - 2x = -1$

(d)  $x^2/y^2 + 3z = 5y$

(e)  $4y^2 = 2/x - 2x^2$

3. (2 points each)

Circle the correct answer for the following questions (Circles that appear to contain two of the answers will automatically be counted as incorrect):

- (a) If Leah is 6 years older than her sister, Sue, and John is 5 years older than Leah, and the total of their ages is 41. Then how old is Sue?
- a. 8
  - b. 10
  - c. 14
  - d. 19
  - e. 21
- (b) Grace has 16 jellybeans in her pocket. She has 8 red ones, 4 green ones, and 4 blue ones. What is the minimum number of jellybeans she must take out of her pocket to ensure that she has one of each color?
- a. 4
  - b. 8
  - c. 12
  - d. 13
  - e. 16
- (c) Lee worked 22 hours this week and made \$132. If she works 15 hours next week at the same pay rate, how much will she make?
- a. \$57
  - b. \$90
  - c. \$104
  - d. \$112
  - e. \$122
- (d) Two angles of a triangle measure  $15^\circ$  and  $85^\circ$ . What is the measure for the third angle?
- a.  $50^\circ$
  - b.  $55^\circ$
  - c.  $60^\circ$
  - d.  $80^\circ$
  - e.  $90^\circ$
- (e) Which of the following is equal to  $5.93 \times 10^{-2}$ ?
- a. 0.0593
  - b. 0.00593
  - c. 593
  - d. 5.93
  - e. 59.3