

Last Name: _____

First Name: _____

Note:

- (1) This is a closed book, closed notes test.
- (2) The use of calculator is not permitted.
- (3) Please turn off all the electronic devices.

There are three points to each correct choice.

Problem 1. Which of the following is a TRUE statement?

- (A)
- $-8 < -9$
- (B)
- $-8 > -9$
- (C)
- $-8 = -9$
- (D) None of these.

Problem 2. Which of the following is a TRUE statement?

- (A)
- $-8 > |-8|$
- (B)
- $-8 = |-8|$
- (C)
- $-8 < |-8|$
- (D) None of these.

Problem 3. The opposite of (-4) is

- (A)
- -4
- (B)
- $-(-4)$
- (C)
- 0
- (D) None of these.

Problem 4. According to the projection in the table, which high school will face the greatest shortage in the year 2010?

High School with shortage of classroom seats by 2010.

Sylmar	-669
San Fernando	-1630
Monroe	-2488
Cleveland	-350
Canoga Park	-586
Polytechnic	-2379
Van Nuys	-1690
Reseda	-462
North Hollywood	-1004
Hollywood	-774

- (A) Monroe (B) Cleveland (C) Polytechnic (D) None of these.

Problem 5. $-65 + 31 - 34 =$

- (A) 68 (B) 0 (C)
- -68
- (D) None of these.

Problem 6. $-17 + (-17) =$

- (A) 0 (B)
- -34
- (C) 34 (D) None of these.

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Problem 7. $[6 + (-4)] + [-6 + (-4)]$

(A) -8 (B) 0 (C) 4 (D) None of these.

Problem 8. $-7 - 7 =$

(A) 0 (B) -14 (C) 14 (D) None of these.

Problem 9. $-8 - (-8) =$

(A) 18 (B) -16 (C) 0 (D) None of these.

Problem 10 $0 - 12 =$

(A) -12 (B) 12 (C) 0 (D) None of these.

Problem 11 $-10 \cdot 5 =$

(A) 50 (B) -5 (C) -50 (D) None of these.

Problem 12 $-4(-2)(-6) =$

(A) 48 (B) -48 (C) 36 (D) None of these.

Problem 13 $(-2)^5$

(A) -10 (B) -32 (C) 10 (D) None of these.

Problem 14 $-23(0)$

(A) -23 (B) 23 (C) 0 (D) 5 (D) None of these.

Problem 15 $\frac{32}{-8}$

(A) -4 (B) 4 (C) 8 (D) None of these.

Problem 16 $\frac{5}{2-2} =$

(A) undefined (B) 0 (C) 5 (D) None of these.

Problem 17 $\frac{0}{5-9}$

(A) 0 (B) -4 (C) UNDEFINED (D) None of these.

Problem 18 $-(-6) =$

(A) 0 (B) -6 (C) 6 (D) None of these.

Problem 19 $|-7| =$

(A) 7 (B) -7 (C) None of these.

Problem 20 $-|-9 + 3| =$

(A) 6 (B) -6 (C) 0 (D) None of these.

Problem 21 $2|-11| =$

(A) -22 (B) 22 (C) None of these.

Problem 22 $(-4)^2 =$

(A) 16 (B) -16 (C) None of these.

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Problem 23 $-5^2 + 25$

(A) -50 (B) 0 (C) 50 (D) None of these.

Problem 24 $(4 - 5)^3 =$

(A) -3 (B) -1 (C) 1 (D) None of these.

Problem 25 $-18 \div 3 \cdot 2 =$

(A) -12 (B) -3 (C) 3 (D) None of these.

Problem 26 $4 - (-3)^2 + 6 =$

(A) 19 (B) 1 (C) 16 (D) None of these.

Problem 27 $-3 + \left(\frac{-16}{4}\right) - 3^3 =$

(A) -16 (B) 16 (C) -34 (D) None of these.

Problem 28 $-10 + 2[6 - (-2)^2(-5)] =$

(A) 42 (B) -38 (C) 38 (D) None of these.

Problem 29 $\frac{4(-6)-2^2}{-3-4} =$

(A) -1 (B) 4 (C) -4 (D) None of these.

Problem 30 In a lab, the temperature of a fluid was reduced 6° per hour for 12 hours. Which of the following number represents the change in temperature?

(A) -72° (B) 72 (C) -18 (D) None of these.

Problem 31 The solution to the equation: $c - (-7) = -8$ is

(A) -15 (B) -1 (C) 15 (D) None of These.

Problem 32 The solution to the equation: $6 - x = -10$ is

(A) -16 (B) 16 (C) 60 (D) None of These.

Problem 33 The solution to the equation: $\frac{x}{-4} = -5$ is

(A) -20 (B) -9 (C) 20 (D) None of These.

Problem 34 The solution to the equation: $-3x = 0$ is

(A) 0 (B) -3 (C) UNDEFINED (D) None of These.

Problem 35 The solution to the equation: $3x + (-7) = -11 + (-11)$ is

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(A) 8 (B) 5 (C) -5 (D) None of These

Problem 36 The solution to the equation: $-5 = 2x - 5$ is

(A) 0 (B) -5 (C) 5 (D) None of These.

Problem 37 The solution to the equation: $\frac{x}{-2} + 3 = (-2)(-6)$ is

(A) 30 (B) -18 (C) -30 (D) None of These.

Problem 38 After making a deposit of \$225, John's account was still \$19 overdrawn. What was his balance before the deposit?

(A) -206 (B) \$244 (C) -\$244 (D) None of These.

Problem 39 One morning, the number of beds occupied by patients in a hospital was 3 under capacity. By afternoon, the number of unoccupied bed was 21. If no new patients were admitted, how many patients were released to go home?

(A) 18 (B) 24 (C) 21 (D) None of these.

Problem 40 $\frac{3(-6)-10}{3^2-4^2} =$

(A) -4 (B) 4 (C) -28 (D) None of These.