

TEST BANK

MILLER O'NEILL HYDE



Prealgebra

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) Write an integer that represents the numerical value. 1) _____

Jim's golf score is 3 over par.

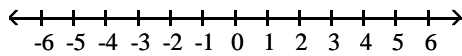
- A) 0.3 B) 3 C) -3 D) -0.3

2) Write an integer that represents the numerical value. 2) _____

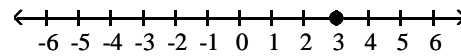
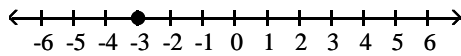
A small business experienced a loss of \$40,000 last year.

- A) $-\frac{1}{\$40,000}$ B) $\frac{1}{\$40,000}$ C) -\$40,000 D) \$40,000

3) Graph the number on the number line. 3) _____



- A) B)



4) Which number is closer to 1 on the number line? -1 or 5 4) _____

- A) -1 B) 5

5) Fill in the blank with < or > to make a true statement. 5) _____

-2 _____ -5

- A) > B) <

6) Fill in the blank with < or > to make a true statement. 6) _____

-593 _____ 584

- A) > B) <

7) Determine the absolute value. 7) _____

$|-4|$

- A) -4 B) 4

8) Determine the absolute value. 8) _____

$|193,000|$

- A) 193,000 B) -193,000

9) Which is greater, -1 or $|-1|$? 9) _____

- A) -1
B) Neither, they are equal.
C) $|-1|$

10) Which is greater, 12 or $|12|$? 10) _____
A) 12
B) Neither, they are equal.
C) $|12|$

11) Find the opposite. 27 11) _____
A) $|27|$ B) $|-27|$ C) -27 D) 27

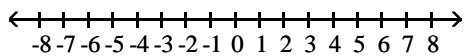
12) Find the opposite. -34 12) _____
A) -34 B) 34 C) - $|-34|$ D) - $|34|$

13) Simplify the expression. 13) _____
- (-8)
A) -8 B) 8

14) Simplify the expression. 14) _____
- $|-5|$
A) -5 B) 5

15) Simplify the expression. 15) _____
- $|7|$
A) -7 B) 7

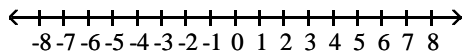
16) Refer to the number line to add the integers. 16) _____



$-2 + 4$

A) -6 B) -2 C) 6 D) 2

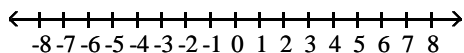
17) Refer to the number line to add the integers. 17) _____



$4 + (-3)$

A) 1 B) -1 C) -7 D) 7

18) Refer to the number line to add the integers. 18) _____

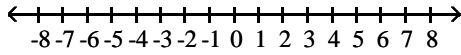


$-1 + (-2)$

A) -1 B) 3 C) -3 D) 1

19) Refer to the number line to add the integers.

19) _____



$0 + (-4)$

A) 4

B) -4

20) Add the numbers with the same sign.

20) _____

$23 + 50$

A) 27

B) -27

C) 73

D) -73

21) Add the numbers with the same sign.

21) _____

$-55 + (-30)$

A) 85

B) 25

C) -85

D) -25

22) Add the numbers with the same sign.

22) _____

$-566 + (-717)$

A) -151

B) 1283

C) -1283

D) 151

23) Add the numbers with different signs.

23) _____

$-29 + 30$

A) -1

B) 1

C) 59

D) -59

24) Add the numbers with different signs.

24) _____

$44 + (-54)$

A) -98

B) -10

C) 10

D) 98

25) Add the numbers with different signs.

25) _____

$2 + (-2)$

A) 4

B) -4

C) 0

26) Add the numbers with different signs.

26) _____

$-26 + 26$

A) 52

B) -52

C) 0

27) Add the numbers with different signs.

27) _____

$2278 + (-3294)$

A) -5572

B) 1016

C) -1016

D) 5572

28) Translate to a mathematical expression. Then simplify the expression.

28) _____

The sum of -28 and 31

A) $-28 + (-31)$; -3

B) $-28 + (-31)$; -59

C) $-28 + 31$; 3

D) $-28 + 31$; -59

- 29) Translate to a mathematical expression. Then simplify the expression. 29) _____
 -4 added to the sum of -2 and 9
 A) $(-2 + 9) + (-4)$; -11
 B) $(2 + 9) + (-4)$; 15
 C) $(-2 + 9) + (-4)$; 3
 D) $(2 + 9) + (-4)$; 7

- 30) The table gives the scores for the top two finishers at a recent golf tournament. 30) _____

	Round 1	Round 2	Round 3	Round 4
Tang	3	-2	-1	-3
Hakob	-4	0	-1	1

Compute Tang's total score.

- A) -6
 B) -4
 C) -9
 D) -3
- 31) At midnight the temperature was -5°F . By noon, the temperature had risen by 6°F . 31) _____
 What was the temperature at noon?
 A) -11°F
 B) 11°F
 C) -1°F
 D) 1°F
- 32) A contestant on a game show won the following amounts for several questions she answered. Determine her total score. 32) _____
 $-\$400,$ $-\$200,$ $\$900,$ $-\$500,$ $\$600$
 A) $-\$2600$
 B) $\$2600$
 C) $\$400$
 D) $-\$400$

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

- 33) Find two integers whose sum is -12. 33) _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 34) Rewrite the subtraction problem as an equivalent addition problem. Then simplify. 34) _____
 $5 - 8 = \underline{\quad} + \underline{\quad} = \underline{\quad}$
 A) $5 + (-8)$; -3
 B) $-5 + 8$; 3
 C) $5 + (-8)$; 3
 D) $-5 + 8$; -3
- 35) Rewrite the subtraction problem as an equivalent addition problem. Then simplify. 35) _____
 $4 - (-8) = \underline{\quad} + \underline{\quad} = \underline{\quad}$
 A) $-4 + 8$; 4
 B) $4 + (-8)$; -4
 C) $4 + 8$; 12
 D) $-4 + (-8)$; -12
- 36) Rewrite the subtraction problem as an equivalent addition problem. Then simplify. 36) _____
 $-9 - 13 = \underline{\quad} + \underline{\quad} = \underline{\quad}$
 A) $-9 + 13$; 4
 B) $-9 + (-13)$; -22
 C) $9 + 13$; 22
 D) $9 + (-13)$; -4

47) Translate the English phrase to a mathematical expression. Then simplify. 47) _____

40 less than -80

A) $40 - 80$; -40

B) $40 - 80$; 40

C) $40 - (-80)$; 120

D) $-80 - 40$; -120

48) If Justin's balance on his credit card was -\$280 and he made the minimum payment of 48) _____

\$45, what is his new balance?

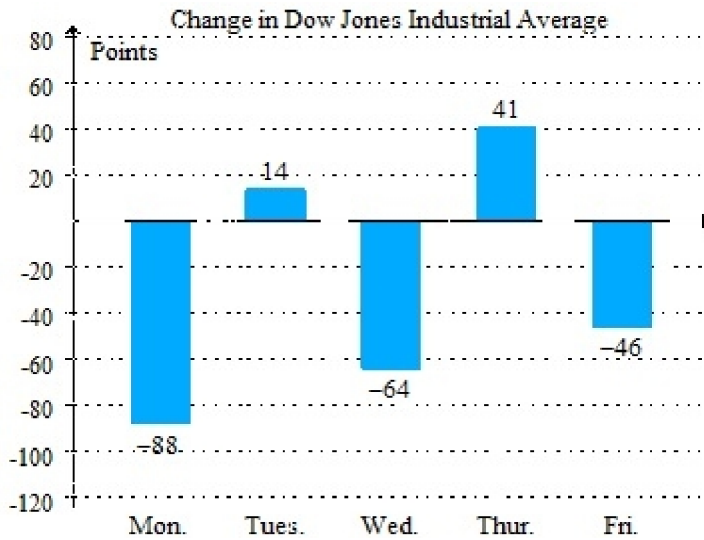
A) -\$325

B) \$325

C) -\$235

D) \$235

49) Refer to the graph indicating the change in value of the Dow Jones Industrial Average for a given week. 49) _____



What is the difference value from Thursday to Friday?

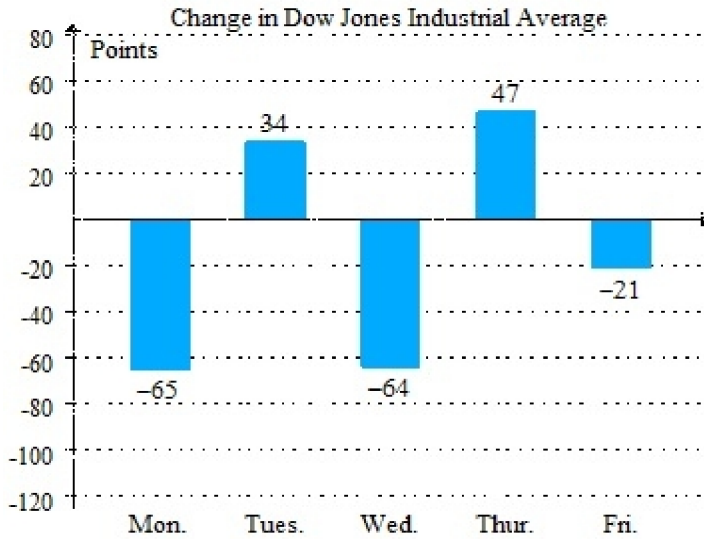
A) -87

B) -5

C) 87

D) 5

- 50) Refer to the graph indicating the change in value of the Dow Jones Industrial Average for a given week. 50) _____



What is the total change for the week?

- A) 231 B) -69 C) -231 D) 69
- 51) Find the range. The *range* of a set of numbers is the difference between the highest value and the lowest value. That is, range = highest – lowest. 51) _____
 Low temperatures for 1 week in Coldsville.(°C): $-1^{\circ}, -10^{\circ}, -15^{\circ}, -1^{\circ}, -9^{\circ}, -8^{\circ}, -9^{\circ}$
 A) 8° B) 14° C) -8° D) -14°
- 52) Find two integers whose difference is -14. 52) _____
 A) $24 - (-38)$ B) $24 - 38$ C) $38 - (-24)$ D) $38 - 24$
- 53) Write the next three numbers in the sequence. 53) _____
 $6, 2, -2, -6, \underline{\quad}, \underline{\quad}, \underline{\quad}$
 A) -10, -13, -16 B) -10, -14, -18 C) -9, -13, -17 D) -9, -12, -15
- 54) Multiply the integers. 54) _____
 $-9(6)$
 A) 3 B) -3 C) -54 D) 54
- 55) Multiply the integers. 55) _____
 $-8(-9)$
 A) 17 B) -72 C) -17 D) 72
- 56) Multiply the integers. 56) _____
 $8(-2)$
 A) -6 B) -16 C) 16 D) 6

- 57) Multiply the integers. 57) _____
 $-6 \cdot 0$
 A) 0 B) 6 C) 1 D) -6
- 58) Translate to a mathematical expression. Then simplify. 58) _____
 The product of -5 and 9
 A) $-5 \cdot 9$; -45 B) $-5 \cdot 9$; 45 C) $-5 + 9$; 4 D) $-5 + 9$; -4
- 59) Translate to a mathematical expression. Then simplify. 59) _____
 6 times -9
 A) $6(-9)$; 54 B) $6(-9)$; -54 C) $6 + (-9)$; 3 D) $6 + (-9)$; -3
- 60) Travis wrote five checks to the employees of his business, each for \$335. If the original balance in his checking account was \$1230, what was the new balance? 60) _____
 A) -\$445 B) -\$895 C) \$445 D) \$895
- 61) Multiply. 61) _____
 $(-3)(-5)(-6)(-7)$
 A) -630 B) 630 C) -21 D) 21
- 62) Multiply. 62) _____
 $(-4)(-2)(-7)$
 A) -13 B) 13 C) -56 D) 56
- 63) Multiply. 63) _____
 $(2)(-2)(-2)(-2)(2)(-2)$
 A) -4 B) 64 C) -64 D) 4
- 64) Simplify. 64) _____
 $(-11)^2$
 A) 22 B) 121 C) -121 D) -22
- 65) Simplify. 65) _____
 $(-5)^3$
 A) 125 B) 15 C) -15 D) -125
- 66) Simplify. 66) _____
 -4^4
 A) -16 B) -256 C) 16 D) 256

- 67) Simplify. $(-5)^4$ 67) _____
 A) -20 B) -625 C) 625 D) 20
- 68) Simplify. -1^{12} 68) _____
 A) -1 B) 1 C) -12 D) 12
- 69) Divide the real numbers, if possible. 69) _____
 $\frac{-36}{4}$
 A) 0 B) Undefined C) 9 D) -9
- 70) Divide the real numbers, if possible. 70) _____
 $\frac{-11}{0}$
 A) Undefined B) -11 C) 11 D) 0
- 71) Divide the real numbers, if possible. 71) _____
 $\frac{0}{-9}$
 A) Undefined B) 0 C) 9 D) -9
- 72) Divide the real numbers, if possible. 72) _____
 $(-12) \div (-4)$
 A) Undefined B) 3 C) -3 D) 0
- 73) Divide the real numbers, if possible. 73) _____
 $\frac{108}{-3}$
 A) -36 B) Undefined C) 0 D) 36
- 74) Translate the English phrase to a mathematical expression. Then simplify. 74) _____
 The quotient of 144 and -48
 A) $-48 \div 144$; 3 B) $-48 \div 144$; -3
 C) $144 \div (-48)$; 3 D) $144 \div (-48)$; -3
- 75) The temperature plunged from 37°F to -11°F in 12 hr. What was the average change in temperature during this time? 75) _____
 A) -36°F B) 4°F C) 36°F D) -4°F

- 76) During a drought, the change in elevation for a retention pond was -8 in. over a 1-month period. At this rate, what will the change in elevation be after 3 months? 76) _____
 A) 24 in. B) -24 in. C) 5 in. D) -5 in.
- 77) Simplify using the order of operations. 77) _____
 $-8 - 6 - 4 - 2$
 A) -20 B) 4 C) -4 D) 20
- 78) Simplify using the order of operations. 78) _____
 $-3(6 - 7) + 11$
 A) 14 B) -28 C) 28 D) -14
- 79) Simplify using the order of operations. 79) _____
 $96 - 24 \div (-3)(4)$
 A) 98 B) -6 C) 128 D) -96
- 80) Simplify using the order of operations. 80) _____
 $|-5 + 15| - |-8|$
 A) 28 B) 12 C) 2 D) 18
- 81) Simplify using the order of operations. 81) _____
 $\sqrt{225 - 81} - 2\sqrt{4}$
 A) $3\sqrt{34} - 4$ B) 20 C) 8 D) 2
- 82) Simplify using the order of operations. 82) _____
 $16 + (14 - 16)^2 \div -4$
 A) 15 B) 17 C) -3 D) -5
- 83) Simplify using the order of operations. 83) _____
 $[8^2 - 6^2] \div (-5 + 3)$
 A) -14 B) -2 C) 2 D) 14
- 84) Simplify using the order of operations. 84) _____
 $\frac{-80 + (-4)^2}{-5 + 21}$
 A) -4 B) 4 C) 6 D) -6
- 85) Simplify using the order of operations. 85) _____
 $\frac{36 - (5)(6)}{-2 - 2^2}$
 A) -1 B) Undefined C) 1 D) 0

- 86) Simplify using the order of operations. 86) _____

$$\frac{|-50 + 2|}{4^2 - (-2)^2}$$
A) 4 B) Undefined C) -4 D) 0
- 87) Simplify using the order of operations. 87) _____
 $17 - [4 - (3 - 5)]$
A) 15 B) 5 C) 21 D) 11
- 88) Simplify using the order of operations. 88) _____
 $-22 - 2[9 \div (-3)]$
A) 16 B) -16 C) -28 D) 28
- 89) Carolyn sells homemade candles. Write an expression for her total revenue if she sells x candles for \$5 each. 89) _____
A) $5x$ B) $\frac{x}{5}$ C) $5 + x$ D) $\frac{5}{x}$
- 90) Bill's daughter is 34 years younger than he is. Write an expression for his daughter's age if Bill is A years old. 90) _____
A) $34 - A$ B) $34A$ C) $A - 34$ D) $A + 34$
- 91) Write the phrase as an algebraic expression. 91) _____
The product of -17 and n .
A) $-17n$ B) $-17 + n$ C) $\frac{x}{-17}$ D) $\frac{-17}{x}$
- 92) Write the phrase as an algebraic expression. 92) _____
The quotient of t and -2
A) $\frac{t}{-2}$ B) $-2 - t$ C) $\frac{-2}{t}$ D) $-2t$
- 93) Write the phrase as an algebraic expression. 93) _____
Six times the sum of s and t
A) $6 + st$ B) $6s + t$ C) $6st$ D) $6(s + t)$
- 94) Write the phrase as an algebraic expression. 94) _____
The difference of x and -3
A) $3 - x$ B) $-3 - x$ C) $x - (-3)$ D) $x - 3$

- 95) Evaluate the expression for the given values of the variables. 95) _____
 $x + 5z$ for $x = -10$ and $z = -7$
A) -57 B) 57 C) 45 D) -45
- 96) Evaluate the expression for the given values of the variables. 96) _____
 $-3mn$ for $m = -8$ and $n = -4$
A) -15 B) 15 C) 96 D) -96
- 97) Evaluate the expression for the given values of the variables. 97) _____
 $|-y|$ for $y = -7$
A) 7 B) 0 C) 1 D) -7
- 98) Evaluate the expression for the given values of the variables. 98) _____
 x^2 for $x = -9$
A) -18 B) 18 C) -81 D) 81
- 99) Evaluate the expression for the given values of the variables. 99) _____
 $-x^2$ for $x = -5$
A) -10 B) 25 C) 10 D) -25
- 100) Evaluate the expression for the given values of the variables. 100) _____
 $-4|x + 5y|$ for $x = 7$ and $y = -3$
A) 32 B) 43 C) -43 D) -32

Answer Key

Testname: UNTITLED2

- 1) B
- 2) C
- 3) B
- 4) A
- 5) A
- 6) B
- 7) B
- 8) A
- 9) C
- 10) B
- 11) C
- 12) B
- 13) B
- 14) A
- 15) A
- 16) D
- 17) A
- 18) C
- 19) B
- 20) C
- 21) C
- 22) C
- 23) B
- 24) B
- 25) C
- 26) C
- 27) C
- 28) C
- 29) C
- 30) D
- 31) D
- 32) C
- 33) Answers may vary. For example: $-2 + (-10)$
- 34) A
- 35) C
- 36) B
- 37) B
- 38) A
- 39) B
- 40) A
- 41) C
- 42) A
- 43) A
- 44) B
- 45) D
- 46) C
- 47) D
- 48) C
- 49) C
- 50) B

Answer Key

Testname: UNTITLED2

- 51) B
- 52) B
- 53) B
- 54) C
- 55) D
- 56) B
- 57) A
- 58) A
- 59) B
- 60) A
- 61) B
- 62) C
- 63) B
- 64) B
- 65) D
- 66) B
- 67) C
- 68) A
- 69) D
- 70) A
- 71) B
- 72) B
- 73) A
- 74) D
- 75) D
- 76) B
- 77) A
- 78) A
- 79) C
- 80) C
- 81) C
- 82) A
- 83) A
- 84) A
- 85) A
- 86) A
- 87) D
- 88) B
- 89) A
- 90) C
- 91) A
- 92) A
- 93) D
- 94) C
- 95) D
- 96) D
- 97) A
- 98) D
- 99) D
- 100) D