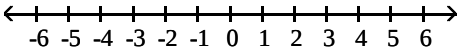


MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

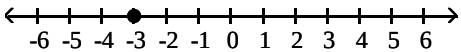
- 1) Write an integer that represents the numerical value. 1) _____
 Jim's golf score is 3 over par.
 A) 0.3 B) 3 C) -3 D) -0.3

- 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

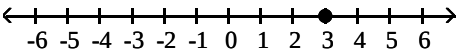
- 3) Graph the number on the number line. 3) _____



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

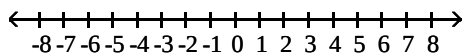
12) Find the opposite. -34 12) _____
 A) -34 B) 34 C) - $|-34|$ D) - $|34|$

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

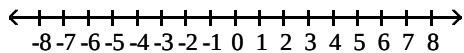
16) Refer to the number line to add the integers. 16) _____



-2 + 4

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

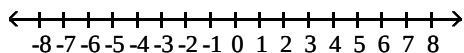
17) Refer to the number line to add the integers. 17) _____



4 + (-3)

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

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

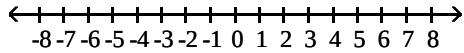


-1 + (-2)

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.

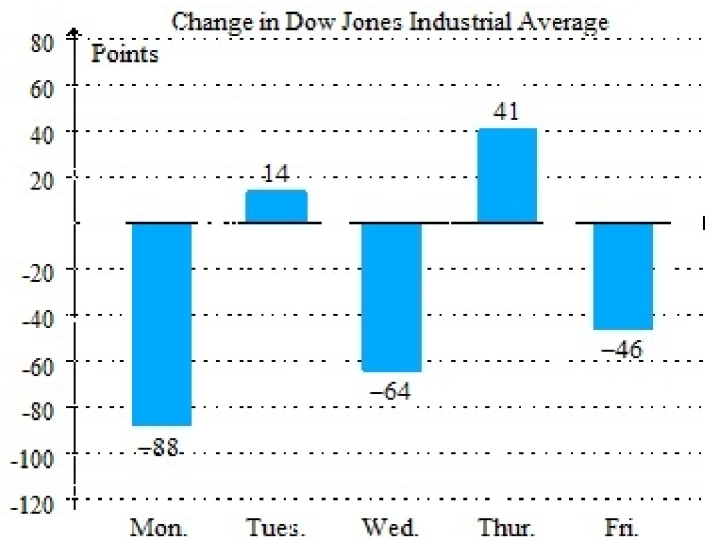
- 33) Find two integers whose sum is -12. 33) _____

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) _____
 $5 - 8 = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$
 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) _____
 $4 - (-8) = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$
 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) _____
 $-9 - 13 = \underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$
 A) $-9 + 13$; 4 B) $-9 + (-13)$; -22
 C) $9 + 13$; 22 D) $9 + (-13)$; -4

- 37) Rewrite the subtraction problem as an equivalent addition problem. Then simplify. 37) _____
 $-12 - (-20) = \underline{\quad} + \underline{\quad} = \underline{\quad}$
 A) $-12 + (-20)$; -32 B) $-12 + 20$; 8
 C) $12 + 20$; 32 D) $12 + (-20)$; -8
- 38) Simplify. 38) _____
 $34 - (-13)$
 A) 47 B) 21 C) -21 D) -47
- 39) Simplify. 39) _____
 $-35 - 9$
 A) 26 B) -44 C) 44 D) -26
- 40) Simplify. 40) _____
 $38 - 92$
 A) -54 B) -130 C) 54 D) 130
- 41) Simplify. 41) _____
 $-61 - (-79)$
 A) -18 B) -140 C) 18 D) 140
- 42) Simplify. 42) _____
 $-831 - 22$
 A) -853 B) 809 C) -809 D) 853
- 43) Simplify. 43) _____
 $-3091 - (-8590)$
 A) 5499 B) -5499 C) -11,681 D) 11,681
- 44) Simplify. 44) _____
 $3 - 4 + 17 - (-2)$
 A) -22 B) 18 C) 22 D) -18
- 45) Simplify. 45) _____
 $33 - 12 - (-38)$
 A) 7 B) -59 C) -7 D) 59
- 46) Translate the English phrase to a mathematical expression. Then simplify. 46) _____
 310 decreased by -20
 A) $310 - 20$; 290 B) $310 - 20$; -290
 C) $310 - (-20)$; 330 D) $310 - (-20)$; -330

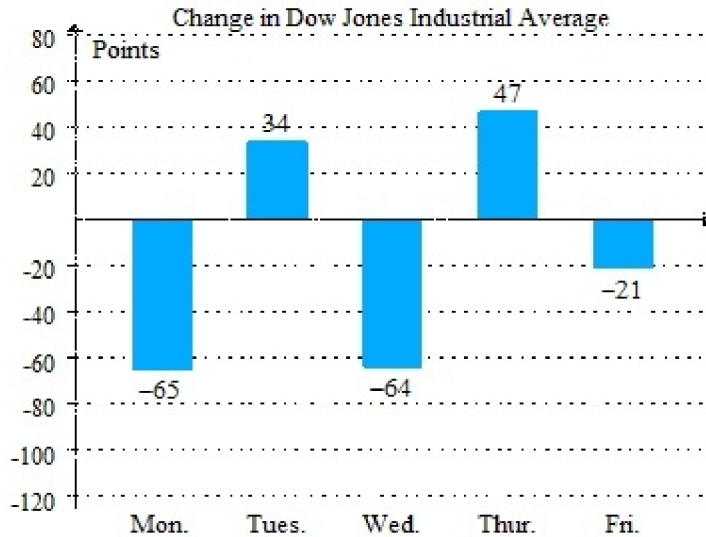
- 47) Translate the English phrase to a mathematical expression. Then simplify. 47) _____
 40 less than -80
 A) $40 - 80$; -40 B) $40 - 80$; 40
 C) $40 - (-80)$; 120 D) $-80 - 40$; -120
- 48) If Justin's balance on his credit card was -\$280 and he made the minimum payment of \$45, what is his new balance? 48) _____
 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° , -10° , -15° , -1° , -9° , -8° , -9°
 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) _____
 $6, 2, -2, -6, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}$
 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

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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