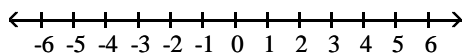


**MULTIPLE CHOICE.** Choose the one alternative that best completes the statement or answers the question.

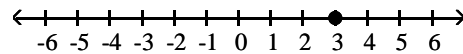
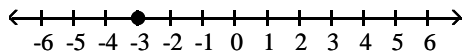
- 1) Write an integer that represents the numerical value. 1) \_\_\_\_\_  
 Jim's golf score is 3 over par.  
 A) 0.3                      B) 3                              C) -3                              D) -0.3

- 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

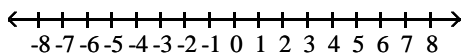
12) Find the opposite. -34 12) \_\_\_\_\_  
A) -34                      B) 34                      C) -  $|-34|$                       D) -  $|34|$

13) Simplify the expression. 13) \_\_\_\_\_  
- (-8)  
A) -8                      B) 8

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

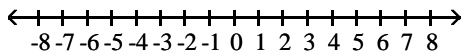
15) Simplify the expression. 15) \_\_\_\_\_  
-  $|7|$   
A) -7                      B) 7

16) Refer to the number line to add the integers. 16) \_\_\_\_\_



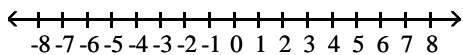
-2 + 4  
A) -6                      B) -2                      C) 6                      D) 2

17) Refer to the number line to add the integers. 17) \_\_\_\_\_



4 + (-3)  
A) 1                      B) -1                      C) -7                      D) 7

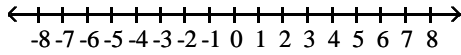
18) Refer to the number line to add the integers. 18) \_\_\_\_\_



-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
<b>Tang</b>	3	-2	-1	-3
<b>Hakob</b>	-4	0	-1	1

Compute Tang's total score.

- A) -6 B) -4 C) -9 D) -3
- 31) At midnight the temperature was  $-5^{\circ}\text{F}$ . By noon, the temperature had risen by  $6^{\circ}\text{F}$ . 31) \_\_\_\_\_  
 What was the temperature at noon?  
 A)  $-11^{\circ}\text{F}$  B)  $11^{\circ}\text{F}$  C)  $-1^{\circ}\text{F}$  D)  $1^{\circ}\text{F}$
- 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

- 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 48) \_\_\_\_\_

\$45, what is his new balance?

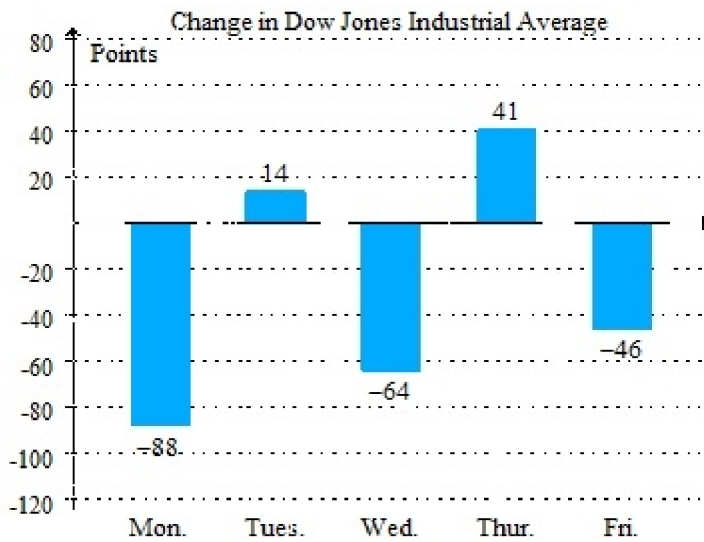
A) -\$325

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?

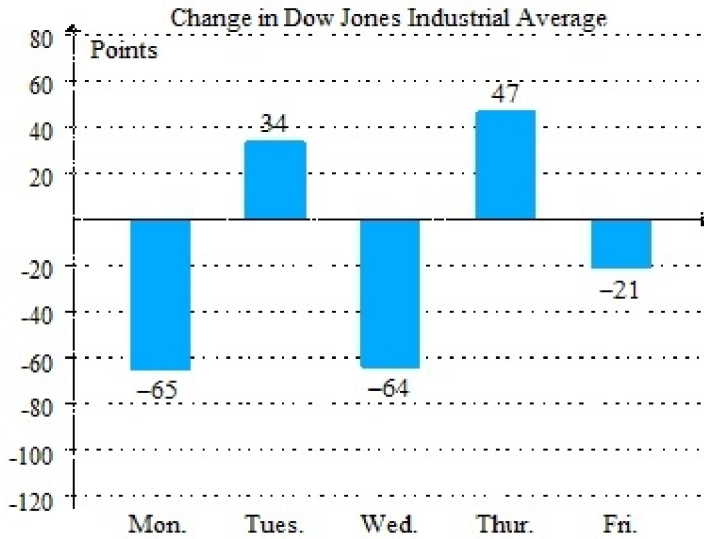
A) -87

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)  $8^{\circ}$                       B)  $14^{\circ}$                       C)  $-8^{\circ}$                       D)  $-14^{\circ}$
- 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  $37^\circ\text{F}$  to  $-11^\circ\text{F}$  in 12 hr. What was the average change in temperature during this time? 75) \_\_\_\_\_  
 A)  $-36^\circ\text{F}$  B)  $4^\circ\text{F}$  C)  $36^\circ\text{F}$  D)  $-4^\circ\text{F}$

- 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