Test Bank for Beginning Algebra 9th Edition by Baratto Bergman and Hutchison ISBN 0073384453 9780073384450

Linkfulldownload: Test bank:

 $\underline{https://testbankpack.com/p/test-bank-for-beginning-algebra-9th-edition-by-baratto-bergman-and-hutchison-isbn-0073384453-9780073384450/}$

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the questi on.				
Answer the question. 1) Is 4 a solution to the equation $x + 7 = 11$? A) No	B) Yes)		
2) Is 17 a solution to the equation 9 - $x = 8$? A) No	B) Yes	?)		
3) Is -8 a solution to the equation 8 - $6x = 56$? A) Yes	B) No	3)		
4) Is -4 a solution to the equation $7x - 5 + 3x = 6 + 4$ A) Yes	- x - 10? B) No	4)		
Label the following as an expression, a linear equation 5) $3x + 6 = 10$ A) Equation which is not linear B) Expression C) Linear equation		5)		
 6) 7x - 2 A) Expression B) Equation which is not linear C) Linear equation 	6	3)		
7) $3x^2 - 5 = 0$ A) Linear equation B) Equation which is not linear C) Expression	7	")		

8) _____

8) $\frac{3}{x}$ - 6 = 2x

- A) Linear equationB) ExpressionC) Equation which is not linear

Solve.

9)
$$x + 6 = 10$$

9)

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

10)
$$8x + 4 = 7x$$

10) _____

A) 3

B) -3

C) 4

D) -4

11)
$$3x - 7 = 2x + 8$$

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

Answer the question.

12) Which of the following is equivalent to the equation 6x - 11 = 5x - 2?

12) _____

13)

- A) 11x = 13
- B) x = -13
- C) 6x = 5x 13 D) x 11 = -2

Solve.

- 13) 8x 0.94 = 7(x 0.93)
 - A) -5.23
- B) -5.57 C) -5.43
- D) -5.78

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

14)
$$24x - 2(7x - 0.965) = 9x + 0.075$$

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

- 15) 4(7x + 10) = 3(9x 5) + 20
 - A) -5

C) 35

D) -35

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

Write an English version of the following equation. Be sure that you write a complete sentence and that your sentence expresses the same idea as the equation.

16)
$$p + 5 = \frac{p}{3} - 10$$

Solve.

17)
$$80 = 10x$$

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

18)
$$-4x = 8$$

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

19)
$$\frac{x}{4} = 1$$

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

20)
$$\frac{2}{5}x = -10$$

A) -4

B) 4

- C) -25
- D) 25

Answ	er the question.				
:	21) Upon returning to the U.S. from Canada, Burgette exchanged her remaining 150				
	Canadian Dollars for 134.53 U.S. Dollars. What exchange rate did she receive? [Hint:				
	Use the equation $150x =$	= 134.53 to solve	this problem. Round to	o the nearest	
	thousandth.]				
	A) 1.115 U.S. Dollars				
	B) 0.896 U.S. Dollars				
	C) 1.114 U.S. Dollars				
	D) 0.897 U.S. Dollars	for each Canadia	n Dollar		
SHOR	ANSWER. Write the word	or phrase that be	st completes each sta	tement or answers the q	uestion.
Solve.					
:	22) $8.4x = -25.2$			22)
Answe	er the question.				
:	23) A company estimates th	nat 5% of the par	ts they manufacture a	re defective. If 3 23)
	defective parts are found	d one week by th	e quality assurance te	sters, how many	
	parts were manufactured	d that week?			
:	24) What interest will you p	av on a \$5400 loa	an for 1 year if the inte	erest rate is 8%? 24)
•	in y what interest win you p	ay on a 42 100 100	un 101 1 your it uio inte	21	/
MULTI	PLE CHOICE. Choose the o	ne alternative tha	at best completes the s	statement or answers the	questi on.
	25) Joe was charged \$54 int				. 25)
	monthly interest rate?				,
	A) 9%	B) 8.5%	C) 9.5%	D) 10%	
	,	,	, , , , , , ,	,	
SHOR	ANSWER. Write the word	or phrase that be	st completes each sta	tement or answers the q	uestion.
:	26) An 800 g solution of aci	d and water cont	ains 128 g of acid. Wh	nat percent of the 26)
	solution is acid?				
	IC 1 1 20	. 1.1	1 . 416 1		
	27) If the sales tax rate is 2%	and the tax on a	a purchase is \$16, wha	it was the amount 27)
	of the purchase?				
	28) A real estate agent recei	ved a 5.5% comp	nission on the sale of a	home If the 28)
•	home sold for \$181,000			i nome, ii tiic 20	/
	ποπιο σοια τοι ψτοτ,000	, 110 W IIIdell Was	ing commingaton:		

29) Of 50 students in a class, 47 passed. What percentage of the students passed?

30) Enrique puts 12% of his monthly paycheck in an IRA. If he invests \$72 in his

IRA, how much was his paycheck?

29) _____

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

- 31) A furniture store marks up items 20% (based on cost). If the furniture store buys a couch for \$350, what will the selling price be?
 - 31)

- A) \$430
- B) \$410
- C) \$420
- D) \$440
- 32) A home purchased for \$300,000 depreciated 8% over a 1-year period. What was the value of the home after at the end of the year?
- 32) ___

- A) \$272,000
- B) \$276,000
- C) \$274,000
- D) \$278,000
- 33) A pair of earrings was marked up \$50 from cost, which amounts to a 20% increase. Find the original cost of the pair of earrings.
 - 33) _____

- A) \$255
- B) \$265
- C) \$250
- D) \$260

Solve.

34)
$$4x + 20 = 8$$

A) 7

B) -3

- C) -18
- D) 22

35) 28 - 7x = 21

A) 25

B) -7

- C) -31
- D) 1

36) $\frac{x}{8}$ - 4 = 10

36)

37) _____

34)

35)

- A) 112
- B) -112
- C) 84

D) -84

 $37) \frac{2}{5}x - 6 = 12$

A) 45

B) 36

D) $\frac{36}{5}$

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

38)
$$8x - 11 = 2x + 1$$

38)

39)
$$10x - 4 - 5x = 6 + 3x - 8$$

39)

40)
$$5(x - 1) = 25$$

40)

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

41)
$$-3(x + 1) = 2(x - 8) + 3$$

A) -1

B) 1

C) 2

D) 3

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

42)
$$-2(x+3) + 7x = 8x - 3$$

43)
$$-9(x + 2) + 10x = x - 18$$

43) _____

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

44)
$$-3x - 7 + 10x = 7x - 7$$

44) _____

45) _____

A) 0

- B) No solution
- **C**) 1

D) Identity

45) 3(x-2) - 2x = x - 6

- A) No solution
- B) 1

- C) Identity
- D) 0

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

46)
$$-6(x + 3) - 10 = 3(-2x - 5) - 13$$

46) _____

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

47)
$$4(x + 2) - 3x = x - 6$$

47)

- A) Identity
- B) No solution
- C) 0

D) 1

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

48)
$$-10(x-4) + 11x = x + 9$$

48)

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

49)
$$7x - 1 + 9x = 16x - 6$$

49) _____

- A) No solution
- B) Identity
- **C**) 1

D) 0

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

50)
$$10(-x - 7) + 20 = -5(2x + 4)$$

50) ____

Solve the problem.

51) Find the length of each side of the rectangle for the given perimeter.

51)

$$\frac{2x-5}{}$$

X

$$P = 50 \text{ in.}$$

Solve.

52)
$$6x + 4(3x - 2) = 6x + 2$$

$$\frac{1}{7}x - 9 = \frac{1}{7}x - 4$$

$$54) \frac{2}{7}x - \frac{3}{2}x = \frac{3}{14}$$

Solve the literal equation for w.

55)
$$v = 11w$$

56)

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

Solve the literal equation for b.

56)
$$a = \frac{1}{2}bc^2$$

A) 2a - c

$$a - c^2$$

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

Solve the literal equation for y.

57)
$$x + 4y = 20$$

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

Solve the literal equation for x.

58)
$$3x - 2y = 6$$

A)
$$\frac{2y+6}{2}$$

B)
$$y + 6$$

$$3x - 6$$

$$3x - 2y = 6$$
 2 $3x - 6$
A) $\frac{2y + 6}{3}$ B) $\frac{y + 6}{3}$ C) $\frac{2}{2}$

Solve the problem.

59) A rectangular solid has a base with length 2 cm and width 6 cm. If the volume of the solid is 60 cm³, find the height of the solid. [Hint: The volume of a rectangular solid is given by V = LWH.



58)

- A) 6 cm
- B) 7 cm
- C) 4 cm
- D) 5 cm

D) 2 + 2y

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

60) A cylinder has a radius of 5 in. If the volume of the cylinder is 250π in.³, what is the height of the cylinder? [Hint: The volume of a cylinder is given by $V = \pi r^2 h$.]



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

- 61) A principal of \$5000 was invested in a savings account for 4 years. If the interest earned for the period was \$400, what was the interest rate? [Hint: The formula for simple interest is I = Prt.
 - A) 1.5%
- B) 1%
- C) 2.5%
- D) 2%

SHOF	RT ANSWER. Write the word 62) If the perimeter of a rect The perimeter of a rect	-	width is 7 ft, find its lea		question. 62)
Tran	slate the following statemed 63) 5 less than a number is	_	quation. Let <i>x</i> repres		·. 63)
	64) 7 more than 4 times a n	umber is 8 times that sa	me number.	6	54)
MULT	FIPLE CHOICE. Choose the of 65) 12 less than 5 times a m	umber is 18.			65)
	A) $12 - 5x = 18$	B) $5x - 12 = 18$	C) $(5 - 12)x = 18$	D) $(12 - 5)x =$	18
	66) 6 times a number is 14 in A) $6x = 14x$		C) $6x = x + 14$	D) $6 = 14x + 3$	66)
SHOF	RT ANSWER. Write the word	or phrase that best con	npletes each statemen	t or answers the	question.
Solve	e the problem. 67) The sum of a number a	and -10 is 3. Find the nu	mber.	(67) ₋
	68) 3 times a number, increased by 2, is 29. Find the number.			(68) ₋
	69) The sum of three conse	ecutive odd integers is 2	01. Find the integers.	6	69) <u> </u>
MULT	TIPLE CHOICE. Choose the o				-
	old is Ricardo? A) 14	в) 10	C) 12	D) 8	
SHOF	RT ANSWER. Write the word 71) One number is 4 less the the larger number is 8, the	an another. If 6 times th	-		question. 71)
	72) Find two consecutive in times second integer is the next consecutive in	51. [Hint: If <i>x</i> represent		-	72)
	73) Find two consecutive of than 3 times the second		times the first integer i	s 12 more	73)
	74) The length of a rectang the rectangle is 40 cm,		-	rimeter of	74)

	75) The length of a rectangular garden is 9 ft less than 4 times its width. If the perimeter of the garden is 32 ft, find the dimensions of the garden.				75)	
			C			
	76) The base of an isoso sides. If the perimeter	reles triangle is 1 in. less er of the triangle is 23 i	_	-	76)	
MUL	ΓΙΡLE CHOICE. Choose t	he one alternative that	best completes the sta	tement or answer	s the que	esti on.
	77) The length of one of					77)
	•	f the perimeter is 29 cm	•		S.	
	A) 11 cm	B) 4 cm	C) 5 cm	D) 12 cm		
SHO	RT ANSWER. Write the w	ord or phrase that best	completes each state	ment or answers t	he quest	ion.
	78) Tickets for a play at	•			78)	
	child. If 250 tickets each type of ticket v	were sold and the total vere sold?	receipts were \$3800,	how many of		
MUL	79) Allen bought 20 star		37¢ and 20¢ denomin		-	e sti on. 79)
	A) 15	B) 18	C) 16	D) 17		
SHO	RT ANSWER. Write the w 80) Anna has 12 bills in is \$100. How many	-	d some \$10. The total		he quest i 80)	
	sold than child ticke	cost \$1 for children, \$1 cket sales were \$1850. ts, and the number of sets. How many of each	There were 50 more a enior citizens tickets w	dult tickets	81)	
	82) A consultant traveler hours because the speed each way?	d 8 hours to attend a moved was 8 miles per ho	-		82)	
MUII	ΓΙΡLE CHOICE. Choose t	he one alternative that	hest completes the sta	tement or answer	s the aug	esti on
WIOL	83) At 1:00 p.m., a car second car leaves the	leaves a city and travel e city and travels south	s north at a rate of 55	mi/h. An hour lat	er, a	83)
	two cars be 285 mile	-	C) 2:00 p.m.	D) 5:00 p.n	n	

- 84) At 9:00 a.m. a truck leaves the truck yard and travels west at a rate of 35 mi/hr. Two hours later, a second truck leaves along the same route, traveling at 45 mi/hr. When will the second truck catch up to the first?
- 84) _____

- A) 6:00 p.m.
- B) 7:00 p.m.
- C) 8:00 p.m.
- D) 9:00 p.m.

- 85) Ching leaves San Francisco and travels toward Los Angeles at 50 mi/h. An hour later, Phil leaves Los Angeles and travels toward San Francisco at 60 mi/h. If the two cities are 380 miles apart, how many hours will it take for Ching to meet Phil?
- 85) _____

Complete the statement, using the symbol < or >.

86) 1 -13

86)

87) 4 -5

87)

Write the inequality in words.

88) x > 12

88) _____

89) $x \ge 2$

89)

Graph the solution set of the inequality.

90) x > 5.

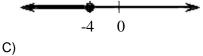
90)

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

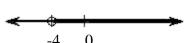
91) x < -4.

91)

A)



B)



C)

D) < + + - >

92) $x \ge -5$.

A)

B)

92) _____

-5 0

0

-5

- -5 0 D)
- D) -5 0

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

93) $x \le 3$.

10

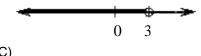
94)
$$x + 4 > -3$$

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

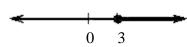
95) 3x + 6 > 2x + 9



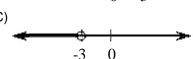
A)



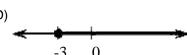
B)



C)

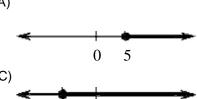


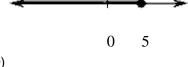
D)



96) $3x \ge 7x + 20$







96) _____

D)			
•		+	>
	-5	0	

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

97) 3(x-4) > 7x-9

Solve the literal equation for y.

98) A electronics store wants to order at least 3 times as many DVD players as 98) _____ Blu-ray players. Write an inequality expressing this relationship.

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

99) An arithmetic student needs an average of 70 or more to receive credit for the course. She scored 66, 60, and 82 on the first three exams. Write a simplified inequality representing the score she must get on the last test to receive credit for the course.

- A) $x \ge 70$
- B) $x \ge 74$
- C) $x \ge 72$
- D) $x \ge 77$

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

100) A long-distance phone call costs \$0.61 for the first minute and \$0.15 for each additional minute or portion thereof. Write an inequality representing the number of minutes a person could talk without exceeding \$2.

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

101) The perimeter of a rectangle is to be no greater than 300 in., and the length must be 125 in. Find the maximum width of the rectangle.

- A) 20 in.
- B) 175 in.
- C) 25 in.
- D) 50 in.

Translate the following statement into an algebraic equation. Let x represent the number.

102) 10 more than a number is less than 2

Answer Key

47) B

Testname: UNTITLED3

```
1) B
 2) A
 3) A
 4) B
 5) C
 6) A
 7) B
 8) C
9) 4
10) D
11) 15
12) D
13) B
14) -1.855
15) D
16) A number increased by five is ten less than one-third of the number. [Answers may vary.]
17) 8
18) A
19) 4
20) C
21) D
22) -3
23) 60 parts
24) $432
25) A
26) 16%
27) $800
28) $9955
29) 94%
30) $600
31) C
32) B
33) C
34) B
35) D
36) A
37) A
38) 2
39) 1
40) 6
41) C
42) -1
43) Identity
44) D
45) C
46) Identity
```

Answer Key

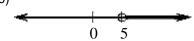
Testname: UNTITLED3

- 48) No solution
- 49) A
- 50) No solution
- 51) 10 in., 15 in.
- 52) $\frac{5}{6}$
- 53) 5
- 54) <u>3</u> 17
- 55) <u>v</u> 11
- $\frac{56)}{57} \frac{20-x}{4} \text{ or } -\frac{1}{4}x + 5$
- 58) A
- 59) D
- 60) 10 in.
- 61) D
- 62) 2 ft
- 63) x 5 = 4
- 64) 4x + 7 = 8x
- 65) B
- 66) C
- 67) 13
- 68) 9
- 69) 65, 67, 69
- 70) C
- 71) 4, 8
- 72) 6, 7
- 73) 9, 11
- 74) 6 cm, 14 cm
- 75) 5 ft, 11 ft
- 76) Legs, 8 in.; base, 7 in.
- 77) D
- 78) 150 adult tickets, 100 child tickets.
- 79) B
- 80) 4 \$5 bills, 8 \$10 bills
- 81) 50 child tickets, 100 adult tickets, 200 senior citizen tickets
- 82) 56 mi/h, 64 mi/hr
- 83) B
- 84) A
- 85) 4 hours after Ching leaves
- 86) >
- 87) >

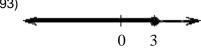
Answer Key

Testname: UNTITLED3

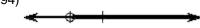
- 88) x is greater than 12
- 89) x is greater than or equal to 2
- 90)



- 91) C
- 92) B
- 93)



94)



- $-\frac{3}{4}$ 0
- 98) $D \ge 3B$
- 99) C
- 100) $0.61 + 0.15(t 1) \le 2$
- 101) C
- 102) x + 10 < 2