Beginning Algebra 9th Edition Baratto Test Bank

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

manufacture designation	Answer	the	question
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- 1) Is 4 a solution to the equation x + 7 = 11?
 - A) No

B) Yes

1) _____

- 2) Is 17 a solution to the equation 9 x = 8?
 - A) No

B) Yes

4) _____

- 3) Is -8 a solution to the equation 8 6x = 56?

- B) No
- 4) Is -4 a solution to the equation 7x 5 + 3x = 6 + x 10?
 - A) Yes

Label the following as an expression, a linear equation or an equation that is not linear.

- 5) 3x + 6 = 10
 - A) Equation which is not linear
 - B) Expression
 - C) Linear equation
- 6) 7x 2

6)

- A) Expression
 - B) Equation which is not linear
 - C) Linear equation
- 7) $3x^2 5 = 0$

7)

- A) Linear equation
- B) Equation which is not linear
- C) Expression
- 8) $\frac{3}{x}$ 6 = 2x

8) _____

- A) Linear equation
- B) Expression
- C) Equation which is not linear

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

Solve.

9)
$$x + 6 = 10$$

9)

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

10) 8x + 4 = 7x

- 10)

A) 3

- B) -3
- C) 4

D) -4

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

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

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

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 question.

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

B) 5

C) 35

D) -35

15) _____

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 question.

18)
$$-4x = 8$$

18) _____

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 question.

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

A) -4

B) 4

- C) -25
- D) 25

Answer the question.					
21) Upon returning to the U			_		21)
		s. What exchange rate d		Hint:	
Use the equation $150x =$	= 134.53 to solve	this problem. Round to	the nearest		
thousandth.]		_			
A) 1.115 U.S. Dollars	s for each Canadia	an Dollar			
B) 0.896 U.S. Dollars					
C) 1.114 U.S. Dollars					
D) 0.897 U.S. Dollars					
D) 0.897 0.3. Dollars	101 Each Canadia	ii Donai			
SHORT ANSWER. Write the wor	d or phrase that b	est completes each state	ment or answers th	ne questi	ion.
Solve.					
22) $8.4x = -25.2$				22)	
A marrow the amount on					
Answer the question.	-4 F0/ - £41	- 41 C4	1-6-4: 16.2	22)	
23) A company estimates th	-	•		23)	
-	-	e quality assurance tester	rs, how many		
parts were manufacture	d that week?				
24) What interest will you p	oay on a \$5400 loa	an for 1 year if the intere	est rate is 8%?	24)	
MULTIPLE CHOICE. Choose the	one alternative th	nat best completes the sta	atement or answer	s the qu	estion.
25) Joe was charged \$54 int	terest for 1 month	on a \$600 credit card b	valance. What was	the	25)
monthly interest rate?					
A) 9%	B) 8.5%	C) 9.5%	D) 10%		
CHORT ANGMED Methodococc					
SHORT ANSWER. Write the wor	d or phrase that b	est completes each state	ment or answers tr	ie questi	ion.
26) An 800 g solution of ac	id and water cont	ains 128 g of acid. Wha	at percent of the	26)	
solution is acid?					
27) If the sales tax rate is 29	% and the tax on :	a purchase is \$16, what	was the amount	27)	
of the purchase?		T		,	
or the purchase.					
28) A real estate agent rece	ived a 5.5% comr	nission on the sale of a h	nome. If the	28)	

30) _____

home sold for \$181,000, how much was his commission?

IRA, how much was his paycheck?

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

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

- 31) A furniture store marks up items 20% (based on cost). If the furniture store buys a couch 31) _____ for \$350, what will the selling price be?
 - 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 33) _____ the original cost of the pair of earrings.
 - A) \$255
- B) \$265
- C) \$250
- D) \$260

Solve.

- 34) 4x + 20 = 8
 - A) 7

B) -3

- C) -18
- D) 22
- 35) 28 7x = 21A) 25B) -7C) -31D) 1
- 36) $\frac{x}{8}$ 4 = 10
 - A) 112
- B) -112
- C) 84

D) -84

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

37)

A) 45

B) 36

- C) $\frac{54}{5}$
- 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 question.

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

B) 1

c) 2

D) 3

41) _____

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

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

42) _____

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

43) _____

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

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 question.

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 question.

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

lestion.

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

D) 0

49) _____

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)

$$2x-5$$

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

Solve.

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

$$53) \frac{9}{7}x - 9 = \frac{2}{7}x - 4$$

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

54)

Solve the literal equation for w.

55)
$$v = 11w$$

55)

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

Solve the literal equation for b.

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

56)

A)
$$2a - c^2$$
 B) $\frac{2a}{c^2}$

B)
$$\frac{2a}{c^2}$$

C)
$$\frac{a - c^2}{2}$$

$$D) \frac{a}{2c^2}$$

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

Solve the literal equation for y.

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

57)

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

Solve the literal equation for x.

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

A) $\frac{2y + 6}{3}$

58)

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

C)
$$\frac{3x - 6}{2}$$

D)
$$2 + 2y$$

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.



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

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 question.

- 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%

The perimeter of a	a rectangle is 18 ft and the rectangle is given by $P =$	the width is 7 ft, find its let $2L + 2W$.	ngth. [Hint: 62) _	
nslate the following sta 63) 5 less than a numb	tement into an algebrai er is 4	c equation. Let x repre		
64) 7 more than 4 time	es a number is 8 times that	t same number.	64)	
LTIPLE CHOICE. Choos	se the one alternative that	best completes the staten	nent or answers the qu	uestion.
65) 12 less than 5 time A) $12 - 5x = 18$	s a number is 18. B) $5x - 12 = 18$	C) $(5 - 12)x = 18$	D) $(12 - 5)x = 18$	65) _
	s 14 more than that numb B) $6x + 14 = x$		D) $6 = 14x + x$	66) _
ORT ANSWER. Write th	e word or phrase that best	completes each statemer	nt or answers the ques	tion.
re the problem. 67) The sum of a numl	per and -10 is 3. Find the	number.	67) _	
68) 3 times a number,	increased by 2, is 29. Fin	d the number.	68)	
69) The sum of three c	consecutive odd integers i	s 201. Find the integers.	69)	
LTIPLE CHOICE. Choos	se the one alternative that	best completes the staten	nent or answers the qu	uestion.
	less than twice as old as h	nis sister. The sum of the	eir ages is 20. How	70) _
70) Ricardo is 4 years old is Ricardo?				

the larger number is 8,	find the two numbers.	

72) Find two consecutive integers such that the sum of 5 times the first integer and 3 times second integer is 51. [Hint: If
$$x$$
 represents the first integer, $x + 1$ represents the next consecutive integer.]

	75) The length of a rect perimeter of the gar	angular garden is 9 ft le den is 32 ft, find the dir			75)	
	permisses of the gui			-		
	76) The base of an isoso sides. If the perime	ter of the triangle is 23	_	-	76)	
MUI	TIPLE CHOICE. Choose	the one alternative tha	t best completes the sta	atement or answers	the que	estion.
	77) The length of one o length of the base. A) 11 cm	f the equal legs of an iso If the perimeter is 29 cr B) 4 cm	•			77)
SHC	ORT ANSWER. Write the	word or phrase that bes	st completes each state	ment or answers the	e questi	on.
	78) Tickets for a play at child. If 250 tickets each type of ticket v	were sold and the total			78)	
MUI	TIPLE CHOICE. Choose	the one alternative tha	t best completes the sta	atement or answers	the que	estion.
	79) Allen bought 20 sta of the stamps was \$ A) 15	mps at the post office in 7.06, how many 37¢ sta B) 18		nations. If the total	cost	79)
SHC	ORT ANSWER. Write the	word or phrase that bes	st completes each state	ment or answers the	e questi	on.
	80) Anna has 12 bills in is \$100. How many	her wallet, some \$5 and of each bill does Anna		value of the bills	80)	
	sold than child ticke	cost \$1 for children, \$ icket sales were \$1850. ets, and the number of sets. How many of each	There were 50 more enior citizens tickets w	adult tickets	81)	
	82) A consultant traveled hours because the subspeed each way?	ed 8 hours to attend a m peed was 8 miles per ho	_	•	82)	
MUI	TIPLE CHOICE. Choose	e the one alternative tha	t best completes the sta	atement or answers	the que	estion.
	83) At 1:00 p.m., a car second car leaves the two cars be 285 mil	e city and travels south				83)
	A) 3:00 p.m.	B) 4:00 p.m.	C) 2:00 p.m.	D) 5:00 p.m.		

- 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.

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

- 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

87) 4 -5

87)

Write the inequality in words.

88) x > 12

89) $x \ge 2$

89)

Graph the solution set of the inequality.

90) x > 5.

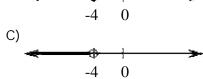
90)

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

91) *x* < -4.

A)

91) _____



- B) -4 0
- 0 -4

92) $x \ge -5$.

A) 0

- -5
- 92) _____

- C)
- D)

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

93) $x \le 3$.

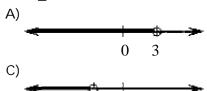
93)

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

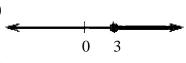
94)

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

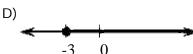
95) 3x + 6 > 2x + 9



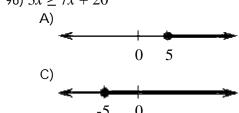
B)



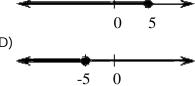
95) _____



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



B)



96) _____

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

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

97) _____

Solve the literal equation for y.

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

98) _____

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

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.

99) _____

- A) $x \ge 70^{\circ}$
- 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.

100) _____

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

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.

101) _____

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

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

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) $\frac{3}{17}$
- 55) $\frac{v}{11}$
- 56) E
- 57) $\frac{20-x}{4}$ 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) >

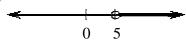
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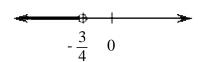
Answer Key

Testname: UNTITLED3

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



- 91) C
- 92) B
- 93)
- 94)
- 95) B
- 96) D
- 97)



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