# Beginning Algebra 9th Edition Baratto Test Bank

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

Answer the question.	the equation $x \neq 7 = 1$	19		1)
A) No	the equation $x + 7 = 1$	B) Yes		1)
2) Is 17 a solution t	the equation 9 - $x =$	8?		2)
A) No		B) Yes		
	the equation 8 - $6x =$			3)
A) Yes		B) No		
	the equation $7x - 5 +$			4)
A) Yes		B) No		
<b>Label the following as an</b> 5) $3x + 6 = 10$	expression, a linear	equation or an equation	n that is not linear.	۲)
	ich is not linear			5)
B) Expression				
C) Linear equat	ion			
6) 7 <i>x</i> - 2				6)
A) Expression				
-	hich is not linear			
C) Linear equat	ion			
7) $3x^2 - 5 = 0$				7)
A) Linear equat				
	nich is not linear			
C) Expression				
8) $\frac{3}{x} - 6 = 2x$				8)
A) Linear equat	ion			
B) Expression				
C) Equation wh	ich is not linear			
SHORT ANSWER. Write t	he word or phrase that	best completes each stat	ement or answers the q	uestion.
Solve.			0	
9) $x + 6 = 10$			9)	
MULTIPLE CHOICE. Cho	ose the one alternative	that best completes the s	tatement or answers th	e question.
10) $8x + 4 = 7x$				10)
A) 3	B) -3	C) 4	D) -4	

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SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question. 11) 3x - 7 = 2x + 811) \_\_\_\_\_ 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) A) 11x = 13B) *x* = -13 C) 6x = 5x - 13D) x - 11 = -2Solve. 13) 8x - 0.94 = 7(x - 0.93)13) \_\_\_\_\_ C) -5.43 A) -5.23 B) -5.57 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 + 0.07514) MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 15) 4(7x + 10) = 3(9x - 5) + 2015) \_\_\_\_\_ C) 35 A) -5 B) 5 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)  $p + 5 = \frac{p}{3} - 10$ 16) \_\_\_\_\_ Solve. 17) 80 = 10x17) MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 18) -4x = 818) \_\_\_\_\_ C) -32 A) -2 B) 32 D) 2 SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question. 19)  $\frac{x}{4} = 1$ 19) MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 20)  $\frac{2}{5}x = -10$ 20) A) -4 B) 4 C) -25 D) 25 2

<ul> <li>Answer the question.</li> <li>21) Upon returning to the U Canadian Dollars for 134 Use the equation 150x = thousandth.]</li> <li>A) 1.115 U.S. Dollars</li> <li>B) 0.896 U.S. Dollars</li> <li>C) 1.114 U.S. Dollars</li> <li>D) 0.897 U.S. Dollars</li> </ul>	4.53 U.S. Dollars. W 134.53 to solve this for each Canadian Do for each Canadian Do for each Canadian Do	hat exchange rate did sh problem. Round to the ollar ollar ollar	ne receive? [H	21) int:
SHORT ANSWER. Write the word	d or phrase that best c	ompletes each statement	t or answers th	e question.
<b>Solve.</b> 22) $8.4x = -25.2$				22)
Answer the question. 23) A company estimates the defective parts are found parts were manufactured	l one week by the qua	-		23)
24) What interest will you pa	ay on a \$5400 loan fo	r 1 year if the interest ra	te is 8%?	24)
MULTIPLE CHOICE. Choose the	one alternative that be	est completes the statem	ent or answers	the question.
25) Joe was charged \$54 int monthly interest rate?	erest for 1 month on a	a \$600 credit card balan	ce. What was	the 25)
A) 9%	B) 8.5%	C) 9.5%	D) 10%	
SHORT ANSWER. Write the word	d or phrase that best c	ompletes each statement	t or answers th	e question.
26) An 800 g solution of aci solution is acid?	d and water contains	128 g of acid. What per	rcent of the	26)
27) If the sales tax rate is 2% of the purchase?	6 and the tax on a pur	chase is \$16, what was	the amount	27)
28) A real estate agent receiv home sold for \$181,000,			e. If the	28)
29) Of 50 students in a class	, 47 passed. What pe	ercentage of the students	s passed?	29)
30) Enrique puts 12% of his IRA, how much was his		an IRA. If he invests \$	72 in his	30)

3.	1) A furniture store marks for \$350, what will the s	-	n cost). If the furniture	store buys a couch	31)
	A) \$430	в) \$410	C) \$420	D) \$440	
32	2) A home purchased for \$ value of the home after a	· •	% over a 1-year period.	What was the	32)
	A) \$272,000	в) \$276,000	C) \$274,000	D) \$278,000	
3:	3) A pair of earrings was m the original cost of the p	-	t, which amounts to a 2	0% increase. Find	33)
	A) \$255	B) \$265	C) \$250	D) \$260	
Solve.					
34	4) $4x + 20 = 8$ A) 7	В) -3	C) -18	D) 22	34)
		5, 5	0, 10	0) 22	
3!	5) $28 - 7x = 21$ A) 25	B) -7	C) -31	D) 1	35)
	X				
30	6) $\frac{x}{8} - 4 = 10$				36)
	A) 112	В) -112	C) 84	D) -84	
3	7) $\frac{2}{5}x - 6 = 12$				37)
	A) 45	B) 36	C) $\frac{54}{5}$	D) $\frac{36}{5}$	
SHORT	ANSWER. Write the wor	d or phrase that best co	mpletes each statement	or answers the questi	ion.

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

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) + $	41)			
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	42)
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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 - 744) \_\_\_\_\_ A) 0 B) No solution C) 1 D) Identity 45) 3(x - 2) - 2x = x - 645) 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) - 1346) \_\_\_\_\_ MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 47) 4(x+2) - 3x = x - 647) 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 + 948) MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 49) 7x - 1 + 9x = 16x - 649) A) No solution C) 1 B) Identity 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) 2x - 5x P = 50 in. Solve. 52) 6x + 4(3x - 2) = 6x + 252) \_\_\_\_\_ 53)  $\frac{9}{7}x - 9 = \frac{2}{7}x - 4$ 53)

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

55)

Solve the literal equation for *w*.

55) v = 11w

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

Solve the literal equation for *b*.

56) 
$$a = \frac{1}{2} bc^2$$
  
A)  $2a - c^2$ 
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 = 6A)  $\frac{2y + 6}{3}$  B)  $\frac{2}{3}y + 6$  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 59) \_\_\_\_\_\_ solid is 60 cm<sup>3</sup>, 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  $250\pi$  in.<sup>3</sup>, 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 61) \_\_\_\_\_\_ 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%

SHORT ANSWER. Write the word or phrase that best completes each statement or a	answers the question.
62) If the perimeter of a rectangle is 18 ft and the width is 7 ft, find its length. The perimeter of a rectangle is given by $P = 2L + 2W$ .]	[Hint: 62)
<b>Translate the following statement into an algebraic equation.</b> Let <i>x</i> represent 63) 5 less than a number is 4	<b>the number.</b> 63)
64) 7 more than 4 times a number is 8 times that same number.	64)
MULTIPLE CHOICE. Choose the one alternative that best completes the statement of	or answers the question.
65) 12 less than 5 times a number is 18.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 more than that number. A) $6x = 14x$ B) $6x + 14 = x$ C) $6x = x + 14$ D)	66)
SHORT ANSWER. Write the word or phrase that best completes each statement or a	answers the question.
<b>Solve the problem.</b> 67) The sum of a number and -10 is 3. Find the number.	67)
68) 3 times a number, increased by 2, is 29. Find the number.	68)
69) The sum of three consecutive odd integers is 201. Find the integers.	69)
MULTIPLE CHOICE. Choose the one alternative that best completes the statement of	or answers the question.
70) Ricardo is 4 years less than twice as old as his sister. The sum of their ago old is Ricardo?	es is 20. How 70)
	) 8
SHORT ANSWER. Write the word or phrase that best completes each statement or a	answers the question.
71) One number is 4 less than another. If 6 times the smaller number minus 2 the larger number is 8, find the two numbers.	times 71)
72) Find two consecutive integers such that the sum of 5 times the first intege times second integer is 51. [Hint: If <i>x</i> represents the first integer, $x + 1$ re the next consecutive integer.]	
73) Find two consecutive odd integers such that 5 times the first integer is 12 than 3 times the second.	more 73)
74) The length of a rectangle is 2 cm more than twice its width. If the perime the rectangle is 40 cm, find the dimensions of the rectangle.	ter of 74)

75)	The length of a rectanguperimeter of the garden	U			75)	
76)	The base of an isosceles sides. If the perimeter of	0	0	-	76)	
MULTIP	LE CHOICE. Choose the	one alternative that	best completes the sta	tement or answers	the que	estion.
77)	The length of one of the length of the base. If th A) 11 cm	1 0	U			77)
SHORT	ANSWER. Write the wor	d or phrase that bes	t completes each staten	nent or answers the	e questi	on.
78)	Tickets for a play at the child. If 250 tickets we each type of ticket were	re sold and the total			78)	
MULTIP	LE CHOICE. Choose the	one alternative that	best completes the sta	tement or answers	the que	estion.
79)	Allen bought 20 stamps of the stamps was \$7.06 A) 15	-		ations. If the total D) 17	l cost	79)
SHORT	ANSWER. Write the wor	d or phrase that bes	t completes each staten	nent or answers the	e questi	on.
80)	Anna has 12 bills in her is \$100. How many of a			value of the bills	80)	
81)	Tickets for an event cos citizens. The total ticke sold than child tickets, a number of child tickets.	t sales were \$1850. nd the number of se	There were 50 more enior citizens tickets w	adult tickets	81)	
82)	A consultant traveled 8 hours because the speed speed each way?		0 1	•	82)	
MULTIP	LE CHOICE. Choose the	one alternative that	best completes the sta	tement or answers	the que	estion.
83)	At 1:00 p.m., a car leave second car leaves the cit two cars be 285 miles ap	y and travels south				83)
	A) 3:00 p.m.	B) 4:00 p.m.	C) 2:00 p.m.	D) 5:00 p.m.		

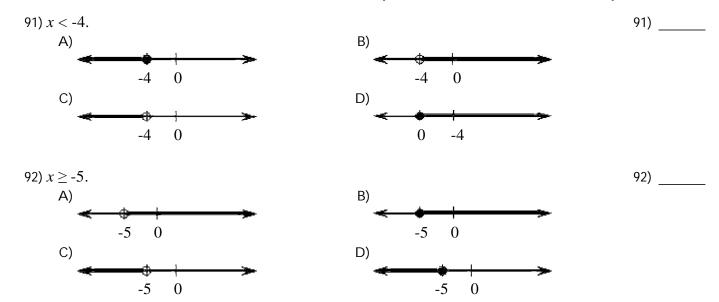
84) At 9:00 a.m. a truck leaves the truck yard and travels west at a rate of 35 mi/hr. Two				
hours later, a second truck leaves along the same route, traveling at 45 mi/hr. When will				
the second truck cate	ch up to the first?			
A) 6:00 p.m.	B) 7:00 p.m.	C) 8:00 p.m.	D) 9:00 p.m.	

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

## Complete the statement, using the symbol < or >.

86) 1	-13	86)
87) 4	5	87)
<b>Write the ine</b> 88) <i>x</i> > 1	<b>quality in words.</b> 2	88)
89) $x \ge 2$		89)
<b>Graph the sol</b> 90) <i>x</i> > 5	ution set of the inequality.	90)

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



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

93) $x \le 3$ .		93)
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Solve and graph the solution set.

94) x + 4 > -3

95) 3x + 6 > 2x + 995) \_\_\_\_\_ A) B) 3 0 3 0 C) D) -3 0 -3 0 96)  $3x \ge 7x + 20$ 96) A) B) 0 5 0 5 C) D) -5 0 -5 0 SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question. 97) 3(x - 4) > 7x - 997) 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 question. 99) An arithmetic student needs an average of 70 or more to receive credit for the course. 99) 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 > 77SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

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

94)

 100) A long-distance phone call costs \$0.61 for the first minute and \$0.15 for each
 100)

 additional minute or portion thereof. Write an inequality representing the number
 100)

 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 gr	reater than 300 in., and	d the length must be	101)
125 in. Find the m	aximum width of the re	ectangle.		
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 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 47) B

48) No solution 49) A 50) No solution 51) 10 in., 15 in. 52)  $\frac{5}{6}$ 53) 5 54) -  $\frac{3}{17}$ 55) <u>v</u> <u>11</u> 56) B 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 = 8x65) 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

