Introductory Algebra 3rd Edition Miller Test Bank

Full Download: http://testbanklive.com/download/introductory-algebra-3rd-edition-miller-test-bank/ MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 1) Identify the following as either an expression or an equation. 1) $10x^2 + 9x - 9$ A) equation B) expression 2) Identify the following as either an expression or an equation. 2) $\frac{10}{7} + y = -3$ A) equation B) expression 3) Determine whether the given number is a solution to the equation. 3) 8t + 4 = -76; -10A) yes B) no 4) Which of the following is a solution to the equation? 4) 12t + 4 = -92A) t = -8C) t = -7B) t = 8D) t = 05) Which of the following is not a linear equation? 5) A) $\frac{y}{8} + 3 = -\frac{1}{4} - \frac{y}{5}$ B) 2(y + 5) = yC) $2x + 3 = 4 - x^2$ D) 2z - 3 = 4z + 2SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question. 6) Solve the equation using the addition or subtraction property of equality. 6) _____ x + 10 = 77) ____ 7) Solve the equation using the addition or subtraction property of equality. z - 27 = -17MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 8) Solve the equation using the addition or subtraction property of equality. 8) 6.8 = -2.3 + vA) v = -9.1B) v = 9.1C) v = -4.5D) v = 4.59) Solve the equation using the addition or subtraction property of equality. 9) $-\frac{3}{8}+m=\frac{1}{4}$ A) m = 7 B) $m = -\frac{1}{8}$ C) $m = -\frac{2}{3}$ D) $m = \frac{5}{8}$ 1

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	by collecting the by $3x + 8 = 9$.		hen solve the equation.		10)
A) - $\frac{2}{9}$,	B) $\frac{2}{3}$	C) -2	D) 6	
SHORT ANSWER	Write the word	or phrase that be	est completes each stateme	nt or answers the qu	uestion.
	e equation using 38 = 30p	the multiplicat	ion or division property o	of equality.	11)
	the equation using $7x = 28$	the multiplicat	ion or division property o	of equality.	12)
MULTIPLE CHOI	CE. Choose the o	ne alternative th	at best completes the state	ment or answers the	e question.
	the equation using $\frac{y}{4} = 5$	the multiplicat	ion or division property o	of equality.	13)
A) y =	$=\frac{5}{4}$	B) <i>y</i> = 9	C) <i>y</i> = 1	D) <i>y</i> = 20	
	the equation using $\frac{2}{3}t = -\frac{1}{5}$	the multiplicat	ion or division property o	of equality.	14)
A) <i>t</i> =	$-\frac{2}{15}$	B) $t = -\frac{3}{10}$	C) $t = -\frac{13}{15}$	D) $t = \frac{3}{10}$	
SHORT ANSWER	Write the word	or phrase that be	est completes each stateme	nt or answers the qu	lestion.
	e equation using 209.7	g the multiplicat	ion or division property o	of equality.	15)
	the equation using $= -12.3k$	the multiplicat	ion or division property o	of equality.	16)
MULTIPLE CHOIC	CE. Choose the o	ne alternative th	at best completes the state	ment or answers the	e question.
unknow The A) 10	n algebraic equat n number.) Ther sum of ten and a -x = -9; $x = 19-10 = -9$; $x = -19$	n solve the equa a number is neg		= -9/10	17)

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question. 18) Write an algebraic equation to represent the English sentence. (Let *x* represent the 18) unknown number.) Then solve the equation. The difference of a number and eleven is twelve. MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 19) Write an algebraic equation to represent the English sentence. (Let x represent the 19) _____ unknown number.) Then solve the equation. The product of negative one-half and a number is twelve. A) $-\frac{1}{2} - x = 12; x = -\frac{25}{2}$ B) $-\frac{1}{2} + x = 12; x = \frac{25}{2}$ D) $-\frac{1}{2}x = 12; x = -24$ C) $-\frac{1}{2}x = 12; x = -6$ 20) Write an algebraic equation to represent the English sentence. (Let x represent the 20) unknown number.) Then solve the equation. The quotient of a number and seven is negative ten. A) $\frac{7}{r} = -10; x = -\frac{7}{10}$ B) $\frac{x}{7} = -10; x = -70$ D) $\frac{x}{7} = -10; x = 70$ C) x - 7 = -10; x = -321) _____ 21) Solve the equation. 27 = 2v + 9A) v = 9B) v = 7C) y = -9D) y = -8SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question. 22) Solve the equation. 22) 4x - 5 = 323) Solve the equation. 23) 3 - 6t = 624) Solve the equation. 24) 7.3x + 19 = 1 + 7.8x

25) Solve the equation. 5n - 8 = 11n + 5				25)
	B) $n = \frac{13}{6}$	C) $n = -\frac{1}{2}$	D) $n = \frac{13}{16}$	
26) Solve the equation. 3z = 5z + 2				26)
A) <i>z</i> = -1	B) <i>z</i> = 1	C) <i>z</i> = -3	D) $z = \frac{5}{3}z + 2$	
27) Solve the equation. $\frac{7}{2}t + 4 = 5 + \frac{3}{2}t$	$\frac{3}{2}t$			27)
A) $t = \frac{1}{2}$	B) $t = \frac{1}{5}$	C) $t = -\frac{1}{5}$	D) $t = -\frac{5}{4}$	
HORT ANSWER. Write the wo	rd or phrase that best	completes each statement	or answers the questi	on.
28) Solve the equation. 2(2-3x) = -14	4		28)
29) Solve the equation. -4(2y+3)+4	= -48		29)
IULTIPLE CHOICE. Choose the	e one alternative that	best completes the statem	ent or answers the que	estion.
30) Solve the equation. $4(t-1) + 3 = 3$	2(t+5)			30)
A) $t = -\frac{3}{2}$	B) $t = \frac{11}{2}$	C) $t = \frac{5}{4}$	D) <i>t</i> = −1	
HORT ANSWER. Write the wo	rd or phrase that best	completes each statement	or answers the questi	on.
HORT ANSWER. Write the wor 31) Solve the equation. y - (6 - y) = 8(completes each statement	-	on.)
-	(y + 4)		31)

	33) Solve the equation. 0.7(x - 4) + 0.5	= 1 - 0.4(8 - 2x) - 0.5			33)
	· · · ·	= 1 - 0.4(8 - 2x) - 0.3 B) $x = 0.4$	C) $x = 0$	D) $x = -0.4$	
	34) Identify the equation as 7y + 2(3 - y) = 5	-	a contradiction or an id	dentity.	34)
	A) conditionalC) contradiction		B) identity D) cannot be determi	ned	
	35) Identify the equation as $2 + 5(x - 1) = -(3 - 1)^{2}$	-	a contradiction or an i	dentity.	35)
	A) cannot be determin C) conditional	,	B) contradiction D) identity		
	36) Solve the equation. Ide identity.	ntify the equation as a c	conditional equation, a	contradiction or an	36)
	3(z+2) - 7z = 8	$\left(-\frac{1}{2}z+1\right)-2$			
	A) contradiction; no s C) conditional; $z = -3$	solution	B) identity; all real n D) identity; no soluti		
	37) Identify the equation as y - 1 + 3y = -7y	-	a contradiction or an id	dentity.	37)
	A) identity		B) conditional		
	C) contradiction		D) cannot be determi	ned	
SHOR	T ANSWER. Write the word	or phrase that best comp	letes each statement or a	inswers the question.	
	38) Identify the equation as Then describe the soluti 12 + 3(n - 5) = 2	on.	a contradiction or an id	dentity. 38)	
		no alternative that best a	ompletes the statement (or answers the questic	
MULT	IPLE CHOICE. Choose the o	ne alternative that best c	ompletes the statement	or answers the questic	on.
	39) Determine which of the $\frac{11}{45}x - \frac{7}{25} = -2$		-	-	39)
	39) Determine which of the		-	-	
	39) Determine which of the $\frac{11}{45}x - \frac{7}{25} = -2$	values below could be B) 25 values below could be	used to clear fractions in C) 1080	in the equation.	

41) Determine which of the values below could be used to clear fractions in the equation.

$\frac{7}{3}x - \frac{1}{5} = 5$			
A) 3	В) 15	C) 6	D) 8

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

42) Solve the equation.

$$\frac{3}{2} + \frac{3}{4}z = -\frac{3}{4}$$

43) Solve the equation.

$$\frac{11}{2}y + 2 = -1$$

44) Solve the equation.

$$\frac{17}{2}z - 3 = 67 + \frac{3}{2}z$$

45) Solve the equation.

$$\frac{10}{3}(3x+4) + 110 = \frac{40}{3}$$

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

46) Solve the equation			
$\frac{1}{2}(2n-5) +$	$-\frac{4}{3} = \frac{5n}{6} - \frac{3}{2}$		
2	3 6 2		
A) $n = \frac{5}{3}$	B) <i>n</i> = -2	C) <i>n</i> = 13	D) $n = -\frac{11}{6}$

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

47) Solve the equation.

$$\frac{2}{3}(6t-2) + \frac{2}{3}t = -\frac{140}{3} - t$$

48) Solve the equation.

$$0.5 = 0.7t - 3$$

48)

47) _____

41) _____

42)

43) _____

44) _____

45) _____

46) _____

49) Solve the equation. $0.02z + 0.12$	= -0.04			49)
		C) <i>z</i> = -9	D) <i>z</i> = -8	
50) Solve the equation.				50)
-0.7y + 1.3 =	•			
A) $y = -2$	B) <i>y</i> = -6	C) $y = -0.4$	D) <i>y</i> = -4	
HORT ANSWER. Write the we	ord or phrase that best o	ompletes each statement o	or answers the questio	n.
51) Solve the equation. 0.03 - 0.01(x + 1)	$2) + 0.07x = 0.02(2x - 1)^{-1}$	- 4)	51)	
NULTIPLE CHOICE. Choose th	ne one alternative that b	est completes the stateme	nt or answers the que	stion.
	ore than three times Jo an expression for Mar	el's weekly salary. If x r	epresents Joel's	52)
A) $3x + 26$	B) $3(x+26)$	• •	D) 26(3 + <i>x</i>)	
HORT ANSWER. Write the we	ord or phrase that best o	ompletes each statement o	or answers the questio	n.
53) The sum of a number	r and 112 is negative 1	38. Find the number.	53)	
NULTIPLE CHOICE. Choose the	ne one alternative that b	est completes the stateme	nt or answers the que	stion.
54) The sum of three tim	es a number and 30 is	28. Find the number.		54)
A) $-\frac{2}{3}$	B) $-\frac{58}{3}$	C) 58	D) $\frac{58}{3}$	
55) The product of ten a number.	nd the sum of two and	a number is five times th	ne number. Find the	55)
A) –5	B) –4	C) 5	D) 12	
56) The sum of two cons	secutive integers is -91	. Find the least of the tw	vo integers.	56)
A) -45	B) -46	C) -92	D) 46	
57) The sum of two cons	secutive even integers	is 102. Find the least of	the two integers.	57)
A) 52	B) 50	C) 48	D) 51	
HORT ANSWER. Write the we	ord or phrase that best c	ompletes each statement o	or answers the questio	n.

	-	triangle is 135 cm. The odd integers. Find the le	•		59)
	A) 43 cm	B) 45 cm	C) 47 cm	D) 41 cm	
SHOR	T ANSWER. Write the	word or phrase that best	completes each statemen	t or answers the question.	
	60) Five times the sum the two. Find the	of two consecutive odd two odd integers.	l integers is twelve time	es the larger of 60) _	
	tons of stuff, and in	have 20 feet of shelf space with the space with the shelf space with the shelf space with the shelf space with the space with	ce as much shelf space	as Michelle. If	
MULT	IPLE CHOICE. Choose	the one alternative that	best completes the staten	nent or answers the questi	on.
	e	0 1	3 times the width. If th	e perimeter is 2000 feet,	62)
	find the dimensions A) 500 feet \times 15 C) 250 feet \times 75	00 feet	B) 100 feet × 30D) 1000 feet × 3		
	-	tangular deck call for the have an overall perimeted		•	63)
	A) 18 feet	B) 2 feet	C) 16 feet	D) 31 feet	
	-	wing of the movie "Divi nen than men in attenda			64)
	A) 64	B) 82	C) 44	D) 22	
	65) What percent of 75 A) 32%	5 is 30? B) 60%	C) 40%	D) 250%	65)
	66) Twelve is what per A) 30%	B) 20%	C) 60%	D) 15%	66)
	67) What is 20% of 12	5?			67)
	A) 30	B) 25	C) 23	D) 32	
	68) 190 is 20% of wha	t number?			68)
	A) 228	B) 950	C) 38	D) 152	

69) The tax rate on a use	ed car in Overshoe Cour	nty is 4.5%. What is the	e total price including	69)
sales tax on a sport u	utility with a selling pric	e of \$15,000?		
A) \$15,675.00	B) \$21,750.00	C) \$29,325.00	D) \$15,337.50	
70) Suppose you make p	ourchases with a total re	tail price of \$150, and t	he amount you have	70)
to pay is \$162.00. V	Vhat is the sales tax rate	?		
A) 8%	B) 12%	C) 0.12%	D) 10%	
71) A pair of jeans is on \$2.16. What was the	sale for 20% off. With e original price of the je		the tax comes to	71)
A) \$36	B) \$45	C) \$51	D) \$15.43	
SHORT ANSWER. Write the w	ord or phrase that best co	mpletes each statement o	or answers the question.	
72) The total cost, includ	ding 5.5% sales tax, of a	a set of golf clubs was \$	443.10. What 72)	
was the retail price of	of the clubs?			
MULTIPLE CHOICE. Choose the second seco	he one alternative that be	est completes the stateme	nt or answers the question	on.
73) The tax rate in Hami	lton County, Ohio, is 69	%. If \$12.20 is the tax	on a purchase, what is	73)
the price of the purch	hase?			
A) \$203.33	B) \$202.03	C) \$205.73	D) \$2.03	
SHORT ANSWER. Write the w	ord or phrase that best co	mpletes each statement o	or answers the question.	
74) If \$15,000 is invested money is in the acco		ns 7.2% simple interest,	how much 74)	
MULTIPLE CHOICE. Choose th	he one alternative that be	est completes the stateme	nt or answers the question	on.
75) An investment gains	an average of 10% simple	ple interest for 8 years,	at which time its value	75)
is \$36,000. How mu	ich was originally invest	ted?		
A) \$22,100	в) \$20,000	C) \$19,700	D) \$28,800	
76) If a \$7,000 original i	nvestment earns simple	interest for 5 years, and	l is worth \$11,200,	76)
what is the interest r	ate?			
A) 37.5%	B) 62.5%	C) 12%	D) 21%	
77) What is the sale price	e of a stereo that norma	lly sells for \$220.00 and	d is on sale for 15%	77)
off?				
A) \$205.00	B) \$253.00	C) \$187.00	D) \$33.00	
78) A car dealership mar	ks up all new automobi	les by 15%. What was	the original wholesale	78)
-	sticker price at this deale	•	C at	·
A) \$19,565.22	B) \$25,875.00	C) \$18,700.00	D) \$3,375.00	

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

79) Solve the formula for <i>y</i> . -2x + 7y = 5	79)
80) Solve the formula for <i>y</i> . ax + by = c	80)
81) Solve the formula for <i>l</i> . P = 2l + 2w	81)

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

82) Solve the formula for <i>z</i> . 8w + 3z - 2 = w				82)
A) $3z = -7w - 7$	B) $z = -\frac{7}{3}w + \frac{2}{3}$	C) $z = \frac{w+2}{3-8w}$	D) $z = 9w - 2$	
83) Solve the formula for m $3n - \frac{m}{2} + 5 = 8n$				83)

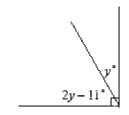
A) m = 10n - 10 B) m = 10 - 10n C) m = 22n - 10 D) $m = \frac{16n - 10}{5}$

84) Solve the formula $M = \frac{1}{3}(h + i + j)$ for <i>i</i> .		84)
A) $i = 3M - h - j$	B) $i = \frac{1}{3}M - h - j$	
C) $i = 3(M - h - j)$	D) $i = 3M + h + j$	

	$D_{1} = 000.7$ feet \times 1555.4 feet
C) 100 feet \times 200 feet	D) 1000 feet \times 2000 feet

87) A large concert venue	87) A large concert venue is to be constructed in the shape of a triangle. The east and west			
sides will be the same	ength, and the back w	fill be $\frac{3}{2}$ times that leng	th. If the contractor	
determines that 1,575	feet of fence is necessa	ary to enclose the perim	neter of the venue to	
keep out fans with no	ticket, what are the dir	mensions?		
A) 375 feet \times 375 fe	et \times 825 feet	B) 450 feet \times 450 f	feet \times 675 feet	
C) 470 feet \times 470 fe	et \times 1,035 feet	D) 400 feet \times 400 ±	feet \times 600 feet	
88) Two angles are comple	• •	of the two is 36° more	than twice the	88)
smaller. Find the 2 ang	gles.			
A) 48° and 132°	B) 54° and 36°	C) 42° and 48°	D) 18° and 72°	
SHORT ANSWER. Write the work	d or phrase that best cor	mpletes each statement o	or answers the question.	

89) Find the measures of the 2 angles pictured below.



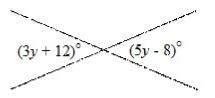
90) Two angles are supplementary. The measure of the smaller angle is 3 degrees
 90) ______
 90) ______
 90) ______
 90) ______

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

91) Find the measures of the two labeled angles in the picture.

91) _____

89)



A) 10° and 10°

B) 78° and 102°

C) $44\frac{1}{4}^{\circ}$ and $45\frac{3}{4}^{\circ}$

D) 42° and 42°

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

- 92) In order to reach a sixth story window of a burning building, a fire ladder is leaned against the building so that the angle it forms with the ground is 37° more than the angle it makes with the building. Find both angles.
 MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.
 93) Angles *A*, *B*, and *C* are the angles in a triangle. Angle *B* is 2 times as big as angle *A*, and leaned against *C* is 24 degrees more than angle *A*. Find the measure of angle *A* in degrees.
 A) 63
 B) 39
 C) 16.5
 D) 78
 - 94) The measure of the larger of the acute angles in a right triangle is 4 degrees less than 594) _____times the measure of the smaller. Find the measure of the smaller angle.

A) $\frac{56}{3}$ degrees B) $\frac{68}{3}$ degrees C) $\frac{47}{3}$ degrees D) $\frac{35}{3}$ degrees

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

95) Write the formula for the circumference (*C*) of a circle of radius (*r*), the solve it95) _____for *r*.

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

96) Find the radius of a circle with circumference 250 inches. Round to two decimal places
 96) ______
 A) 1570.00 inches
 B) 79.62 inches

C) 36.21 inches D) 39.81 inches

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

97) The Barrington Crater in Arizona was the site of a meteor impact about 50,000
97) ______
97) years ago. It is circular in shape, with a circumference of 2.36 miles. How wide is the crater? Round your answer to two decimal places.

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

99) _____

A) x - 144 B) 144 - x C) $\frac{144}{x}$ D) 144 + x

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

99) A teacher takes her class and some of the children's parents on a field trip to a museum. She purchased a total of 39 tickets for a total cost of \$162. If children's tickets each cost \$2 and adult tickets each cost \$6, how many children and how many adults went on the field trip?

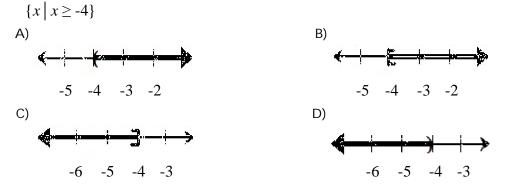
100	of 45 drinks for the par	ty at a total cost of \$1.40, how many and 21 canned drin and 22 canned drin and 24 canned drin	ks ks	each cost \$1.70 and	100)
SHORT	ANSWER. Write the word	or phrase that best	completes each statement c	or answers the question.	
101			4 to rent a chain saw, plus ntal fee was \$17.80, how		
MULTIP	LE CHOICE. Choose the o	one alternative that	best completes the stateme	nt or answers the questic	on.
102	•		eposit and <i>d</i> dollars in a st	cock, write an	102)
	expression for the total A) d - 4200	amount she investo B) $4200 - d$	c) 4200 + <i>d</i>	D) 4200 <i>d</i>	
103) How many gallons of g gasoline with 4% ethan		ethanol must be added to that is 5% ethanol?	2,000 gallons of	103)
	A) 1,800	B) 2000	C) 2115	D) 1000	
104		His speed on the re	hboring city in 6 hours. H eturn trip was 8 mph faste ities?		104)
	A) 16 miles	B) 91 miles	C) 96 miles	D) 192 miles	
105	than in still water. If the	ey travel with the c	e able to travel 4 mph faste urrent from a dock to the current in 2.5 hours, how	ir campground in 1.5	105)
	A) 10 mph	B) 2 mph	C) 6 mph	D) 16 mph	
106		*	ward each other on the sa an the other. What is the	•	106)
	A) 42 mph; 43 mph		B) 40 mph; 41 mpl	n	
	C) 41 mph; 42 mph		D) 43 mph; 44 mpl		

107	107) A freight train and a passenger train leave a rail yard at the same time and travel on parallel tracks. The passenger train travels 8 mph faster than the freight train. The				107)
		-	-	•	
		eled after 2 hours is 76	miles. What is the	average speed of each	
	train?		D) 17 much 25 m		
	A) 14 mph; 22 mph		B) 17 mph; 25 n	-	
	C) 12 mph; 20 mph		D) 15 mph; 23 n	apn	
108	B) If you average 53 miles take?	s per hour on a road trip	p covering 318 mile	es, how long will the trip	108)
	A) 6 hours	B) 10 hours	C) 7 hours	D) 5 hours	
SHORT	ANSWER. Write the word	d or phrase that best com	pletes each statemer	nt or answers the question.	
109) Ricardo and his friend	Mona are 10 miles apar	t, and agree to mee	et for a picnic. 109)	
		n bike, while Mona is or	Ū		
	an average speed of 18	miles per hour, and Mo	ona can average 10	miles per hour	
	on blades. How long v	will it take them to meet	t?		
MULTIF	PLE CHOICE. Choose the	one alternative that best	completes the stater	ment or answers the question	on.
110)) As a promotional stunt	at a professional track	meet, a sprinter wi	ll race a horse. The	110)
	-	-	-	he sprinter's speed is 36	
		e horse's speed is 75 fee			
	horse to overtake the s	printer?	-	-	
	A) 22.5 seconds		B) 9.2 seconds		
	C) He never overtake	es the sprinter.	D) 5 seconds		
SHORT	ANSWER. Write the word	d or phrase that best com	pletes each statemer	nt or answers the question.	
111) Graph the solution set.			111) _	
	$x \ge -\frac{3}{2}$				
	$x \ge -\frac{1}{2}$				
112	?) Graph the solution set.			112) _	
	<i>x</i> < 4				
MULTIF	PLE CHOICE. Choose the	one alternative that best	completes the stater	ment or answers the question	n.
112	3) Which is the correct gr	anh of the solution set.	of $25 \le t \le 7_2$		113)
IIJ	b) which is the correct gr	apir of the solution set of	$51-5.5 \le l < \frac{1}{2}$		113)
	A) -8-7-6-5-4-3-2-1 () 1 2 3 4 5 6 7 8	B) -4 -3 -2	-1 0 1 2 3 4	
) 1 2 3 4	(E -	+ + + + } + →	
	C) -4 -3 -2 -1 () 1 2 3 4	D) -4 -3 -2	-1 0 1 2 3 4	

114) A set is given in set-builder notation. Write the set in interval notation.

{
$$x \mid x \ge 1$$
}
A) [1, ∞) B) (- ∞ , 1] C) (1, ∞) D) (- ∞ , 1)

115) A set is given in set-builder notation. Graph the set.



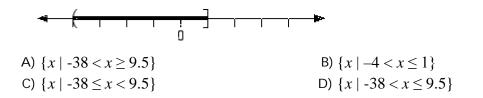
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

 116) Below is the graph of an interval. Write the interval in interval notation.
 116)

-4 -3 -2 -1 0 1 2 3 4

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

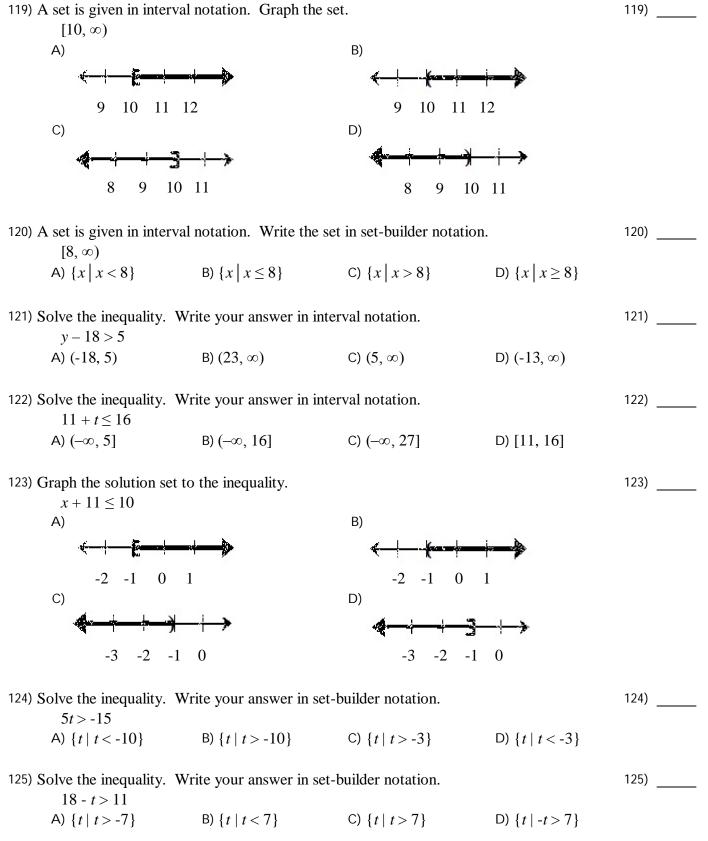
- 117) Write the interval described below in interval notation.117)All real numbers that are at most -9 $A) [-9, \infty)$ $B) (-\infty, -9]$ $C) (-\infty, -9)$ $D) (-9, \infty)$
- 118) If each tick mark on the number line below corresponds to 9.5 units, what set is graphed118) ______below? Write the set in set-builder notation.



115) _____

114)

119) A set is given in interval notation. Graph the set.



126) Solve the inequality. Write your answer in interval notation. 126) _____ 12y + 6 > 9C) $\left|\frac{1}{4},\infty\right|$ D) $\left[-\infty, -\frac{1}{4}\right]$ A) $(3, \infty)$ B) (-∞, 9) 127) Solve the inequality. Write your answer in interval notation. 127) _____ $-5 - 7z \le -3$ A) $\left[-\infty, -\frac{2}{7}\right]$ B) $\left[-\infty, -\frac{2}{7}\right]$ C) $\left[-\frac{2}{7}, \infty\right]$ D) $\left| -\frac{2}{7}, \infty \right|$ 128) Solve the inequality. Write your answer in interval notation. 128) _____ 7(x-3) - 6x > 11A) $(-\infty, 14]$ B) $[14, \infty)$ C) $[32, \infty)$ D) $(-\infty, 32]$ 129) Solve the inequality. Write your answer in interval notation. 129) _____ $11 \le 6(n+4) - 4n$ $A) \left[-\frac{13}{2}, \infty \right] \qquad B) \left[-\infty, -\frac{13}{2} \right] \qquad C) \left[-\infty, -\frac{13}{2} \right]$ D) $\left[-\frac{13}{2},\infty\right]$ 130) _____ 130) Solve the inequality. Write your answer in interval notation. -6 - 6(2x + 1) < x - (-6 - x)B) $\left(-\infty, -\frac{9}{7}\right)$ D) $\left[-\frac{9}{7},\infty\right]$ C) $\left| -\frac{9}{7}, \infty \right|$ A) (-∞, -6) 131) _____ 131) Solve the inequality. Write your answer in interval notation. $-2(5y - 7) + y \ge 2y - (-7 + y)$ A) $\left|\frac{7}{10},\infty\right|$ B) $\left|-\infty,\frac{7}{10}\right|$ C) $\left|-\infty, \frac{7}{10}\right|$ D) $(0, \infty)$ 132) Solve the inequality. Write your answer in interval notation. 132) _____ $\frac{2}{3}y - \frac{1}{2} \ge y + \frac{11}{3}$ $A)\left[-\infty,\frac{25}{3}\right] \qquad B)\left[-\infty,-\frac{25}{2}\right] \qquad C)\left[\frac{25}{2},\infty\right]$ D) $\left| -\infty, -\frac{25}{3} \right|$ 133) Solve the inequality. Write your answer in interval notation. 133) _____ 0.12z + 0.08 < -0.02z - 0.2A) $\left[\frac{5}{7},\infty\right]$ B) $\left(-\infty, -\frac{5}{7}\right)$ C) (-2, ∞) D) $(-\infty, -2)$

134) Solve the inequality. Write your answer in set-builder notation. -3p + 7 < -2p + 8				134)
$A)\left\{p \mid p < -\frac{1}{5}\right\}$	B) { <i>p</i> <i>p</i> > −1}	C) { <i>p</i> <i>p</i> > 1 }	D) { <i>p</i> <i>p</i> < -1}	
135) Is $x = -4$ a solution to the $19x + 8 \ge 8x - 5$	e inequality?			135)
A) No		B) Yes		
136) Which of the following $8(y-3) < y+8$	is a solution to the ineq	uality?		136)
A) $\frac{28}{3}$	В) -6	C) $\frac{21}{2}$	D) 9	
137) Solve the inequality. W -10 < $x + 15 \le 1$	rite your answer in inte	erval notation.		137)
	B) [-25, 14)	C) (-14, 25]	D) (-25, -14]	
138) Solve the inequality. We $-18 \le 2x < 20$	rite your answer in inter	rval notation.		138)
A) [-36, 40)	B) [-18, 10)	C) (-9, 10]	D) [-9, 10)	
139) Solve the inequality. We $-2 < -2y + 5 \le 2$	rite your answer in inter	rval notation.		139)
$A)\left[\frac{3}{2},\frac{7}{2}\right]$	$B)\left(\frac{3}{2},\frac{7}{2}\right]$	$C)\left[-\frac{7}{2},\frac{3}{2}\right]$	$D)\left[-\frac{7}{2},2\right]$	
140) Graph the solution set to $-7 \le 2x - 9 < -1$	o the inequality.			140)
A)		B)		
< 0 1 2 3	····	-2 -1 0 1	} 2 3	
C)	N IN	D)		
∢ <u> </u>_ † −† 0 1 2 3	4 5	-2 -1 0 1	2 3	
141) Solve the inequality. Write your answer in interval notation. -14 $\leq 2x - 3 < 6$				141)
	$B)\left[-\frac{11}{2},\frac{9}{2}\right]$	C) $\left[-\frac{11}{2},\infty\right]$	D) $\left[-\frac{11}{2}, -\frac{9}{2} \right]$	

142) Solve the inequality. Write your answer in interval notation.

$-1 \le \frac{3}{4}y - 2 < \frac{7}{4}$			
$A)\left[\frac{4}{3},\frac{13}{3}\right]$	$B\left[-\frac{2}{3},3\right]$	$C)\left[\frac{2}{3},\frac{13}{3}\right]$	$D)\left[\frac{4}{3},5\right]$

142) _____

143) _____

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

143) Translate the sentence into a mathematical inequality.

To qualify as a hurricane, the wind speed (*w*) of a tropical storm must exceed 74 miles per hour.

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

144) Translate the sentence into a mathematical inequality.				144)
The number of peop	ble that can fit into a con	ncert hall, p, is no more	than 7600.	
A) <i>p</i> < 7600	B) <i>p</i> > 7600	C) $p \le 7600$	D) $p \ge 7600$	

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

145) Sparky has scores of 74, 69, and 77 on his first three Sociology tests. If he needs	145)	
to keep an average of 70 to stay eligible for lacrosse, what scores on the fourth		
exam will accomplish this?		

146) A rental company charges a flat fee of \$5 to rent a power washer, plus \$3 per day. 146) ______How many days could you keep the power washer if you plan to spend no more than \$30?

Answer Key Testname: UNTITLED12

1) B 2) A 3) A 4) A 5) C 6) *x* = -3 7) *z* = 10 8) B 9) D 10) C 11) $p = \frac{19}{15}$ 12) *x* = -4 13) D 14) B 15) *x* = -209.7 16) $k = \frac{1}{3}$ 17) C 18) x - 11 = 12; x = 2319) D 20) B 21) A 22) *x* = 2 23) $t = -\frac{1}{2}$ 24) *x* = 36 25) A 26) A 27) A 28) *x* = 3 29) *y* = 5 30) B 31) $y = -\frac{19}{3}$ 32) C 33) A 34) C 35) D 36) B 37) B 38) conditional; n = -139) A 40) B

Answer Key Testname: UNTITLED12

41) B 42) *z* = -3 43) $y = -\frac{6}{11}$ 44) *z* = 10 45) *x* = -11 46) B 47) *t* = -8 48) *t* = 5 49) D 50) D 51) $x = \frac{1}{2}$ 52) A 53) -250 54) A 55) B 56) B 57) B 58) 12 feet \times 14 feet 59) C 60) –7 and –5 61) 6'8", or $6\frac{2}{3}$ feet 62) C 63) C 64) A 65) C 66) B 67) B 68) B 69) A 70) A 71) B 72) \$420 73) A 74) \$25,800 75) B 76) C 77) C 78) A 79) $y = \frac{2}{7}x + \frac{5}{7}$

Answer Key Testname: UNTITLED12

80) $y = \frac{c - ax}{b}$ or $y = \frac{c}{b} - \frac{ax}{b}$ 81) $l = \frac{P - 2w}{2}$ or $l = \frac{P}{2} - w$ 82) B 83) B 84) A 85) C 86) A 87) B 88) D 89) $33\frac{2}{3}$ and $56\frac{1}{3}$ 90) $\frac{531}{4}$ degrees or 132.75° 91) D 92) 26.5° and 63.5° 93) B 94) C 95) $C = 2\pi r; r = \frac{C}{2\pi}$ 96) D 97) 0.75 mile 98) B 99) 18 children and 21 adults went on the trip. 100) D 101) 6 days 102) C 103) D 104) C 105) D 106) D 107) D 108) A 109) $\frac{5}{14}$ hour 110) B 111) -4 -3 -2 -1 0 1 2 3 4 113) B 114) A 115) B

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Answer Key Testname: UNTITLED12

116) (-∞, 2] 117) B 118) D 119) A 120) D 121) B 122) A 123) D 124) C 125) B 126) C 127) D 128) C 129) A 130) D 131) C 132) B 133) D 134) B 135) A 136) B 137) D 138) D 139) A 140) C 141) B 142) D 143) *w* > 74 144) C

145) He must score 60 or higher.

146) You can keep it 8 days or less.

23