Test Bank for Introductory and Intermediate Algebra 6th Edition by Lial IBSN 9780134768533

Full Download: http://downloadlink.org/product/test-bank-for-introductory-and-intermediate-algebra-6th-edition-by-lial-ibsn-9780 MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Solve the equation.			
1) $z - 5 = -2$ A) {3}	B) {7}	C) {-7}	D) { 3}
Answer: A	D) {/ }	C) {-7}	D) {-3}
7115WCI. 74			
2) $x + 5 = 8$			
A) {-3}	B) {-13}	C) {3}	D) {13}
Answer: C			
3) -24.3 - s = 29.9			
A) {54.2}	B) {-54.2}	C) {5.6}	D) {-5.6}
Answer: B			
4) $2 = b + 1$			
A) {1}	B) {-1}	C) {-3}	D) {3}
Answer: A			·
5) 21 h 20			
5) $-21 = b - 30$ A) {9}	B) {-9}	C) {51}	D) {-51}
Answer: A	2)(2)		2)((01)
6) $5p + 12 = 6p + 14$	\mathbf{D} (1)	C ()	
A) {5}	B) {-1}	C) {-2}	D) {-3}
Answer: C			
7) $-2m - 7 = -3m - 8$			
A) {-1}	B) {-7}	C) {-2}	D) {0}
Answer: A			
8) 7.9p - 12 = 8.9p - 3			
A) {-10}	B) {-9}	C) {-8}	D) {7.9}
Answer: B			
9) 10y = 6y + 10 + 3y			
A) {100}	B) {-10}	C) {-100}	D) {10}
Answer: D			,
10) –5a + 2 + 6a = 12 – 27 A) {–17}	B) {17}	C) {41}	D) {-41}
Answer: A	~/(**)	~, (**)	~/(11)
mover, n			
11) -6b + 7 + 4b = -3b + 12			
A) {5}	B) {7}	C) {-5}	D) {-7}
Answer: A			

Full all chapters instant download please go to Solutions Manual, Test Bank site: downloadlink.org

$12)\frac{2}{11}x + \frac{2}{9} = \frac{1}{2} - \frac{9}{11}x + \frac{1}{2}$			
A) $\left\{ \frac{5}{18} \right\}$ Answer: D	$B)\left\{-\frac{11}{9}\right\}$	C) $\left\{\frac{11}{9}\right\}$	D) $\left\{\frac{7}{9}\right\}$
13) 2(y + 5) = 3(y - 6) A) {8} Answer: D	B) {-8}	C) {-28}	D) {28}
14) 2(2z – 5) = 3(z + 2) A) {4} Answer: D	B) {-4}	C) {-2}	D) {16}
15) 9(k - 2) - (8k + 1) = 2 A) {- 21} Answer: D	B) {- 5}	C) {- 17}	D) {21}
16) 2(2x - 8) - 7(7 - 3x) = 42 + 26x A) {-65} Answer: B	B) {-107}	C) {-23}	D) {-9}
17) 5(3x - 1) + 8(-5 + 2x) = 2(15x + A) {0} Answer: D	5) + 6 B) {-29}	C) {15}	D) {61}
Provide an appropriate response. 18) 2x - 5 = 5 + 7x - 3 Is this a linear equation? A) Yes Answer: A		B) No	
$19) \frac{-3}{x} = 83$ Is this a linear equat A) Yes Answer: B	ion?	B) No	
20) $5x^2 - 7 = 3x$. Is this a linear each A) Yes Answer: B	quation?	B) No	
21) Is it true that the equation -14 equations? A) True Answer: A	9x + 669 = -304 and the equat	tion –149x + 669 + 304 = 0 are B) False	always equivalent
22) Is it true that the equation –12 A) True Answer: B	8x + 52 = 357 and the equation	n x = (52 – 357)/–128 are equi B) False	valent equations?

Determine the number by which both sides of the equation must be multiplied or divided, as specified, to obtain just x on the left side.

23) $\frac{2}{3}x = 6$; multiply by			
A) $-\frac{2}{3}$	B) 6	C) 9	D) $\frac{3}{2}$
Answer: D			
24) $-\frac{2}{3}x = 8$; multiply by			
A) 8	B) -3	C) $-\frac{3}{2}$	D) $\frac{2}{3}$
Answer: C			
25) $0.9x = 5$; multiply by A) $\frac{10}{9}$	B) $-\frac{9}{5}$	C) 5	D) 0.9
Answer: A			
26) -x = -0.09; multiply by A) 0.09	B) $-\frac{100}{9}$	C) -0.09	D) -1
Answer: D			
27) $2x = 1$; divide by A) $\frac{1}{5}$	B) –2	C) 1	D) 2
Answer: D			
28) $-x = -0.07$; divide by A) $-\frac{100}{7}$ Answer: D	B) -0.07	C) $-\frac{7}{100}$	D) -1
Answer: D 29) $0.2x = 9$; divide by A) 9 Answer: C	B) 5	C) 0.2	D) 2
Solve the equation.			
30) -9a = 18 A) {-2} Answer: A	B) {27}	C) {1}	D) {-27}
31) -2x = -16 A) {-14} Answer: B	B) {8}	C) {14}	D) {2}

32) 5b = -80 A) {85} Answer: B	B) {-16}	C) {1}	D) {-85}
33) -x = 21 A) {0} Answer: B	B) {-21}	C) {1}	D) {21}
34) -31.5 = -4.5c A) {-27.0} Answer: C	B) {27.0}	C) {7.0}	D) {2.0}
35) $-\frac{1}{5}x = -7$ A) {-13} Answer: D	B) {-12}	C) {1}	D) {35}
36) $-1 = \frac{1}{2}a$ A) $\{-1\}$ Answer: C	B) {1}	C) {-2}	D) {0}
37) $\frac{1}{22}a = 0$ A) {0} Answer: A	B) {-22}	C) {1}	D) {22}
38) $\frac{n}{4} = 13$ A) {17} Answer: B	B) {52}	C) {16}	D) {3}
$39) \frac{3}{5}y = \frac{2}{7}$ A) $\left\{\frac{10}{7}\right\}$ Answer: D	$B)\left\{-\frac{10}{21}\right\}$	C) $\left\{\frac{21}{10}\right\}$	$D)\left\{\frac{10}{21}\right\}$
40) $1x - 4x = -9$ A) $\{\frac{9}{5}\}$	B) {-3}	C) $\{-\frac{9}{5}\}$	D) {3}
Answer: D 41) $2x - 4x - 6x = -32$ A) $\{2\}$ Answer: D	B) {-4}	C) {- 2}	D) {4}

42) $4x + 2 = 8x - 4$ A) $\left\{\frac{3}{2}\right\}$ Answer: A	B) $\left\{-\frac{3}{2}\right\}$	C) $\left\{-\frac{2}{3}\right\}$	D) $\left\{\frac{2}{3}\right\}$
43) $5x - 2x - 3 = -6x$ A) $\{-3\}$ Answer: B	B) $\left\{\frac{1}{3}\right\}$	C) {1}	D) $\left\{-\frac{1}{3}\right\}$
44) 1.4q - 6.7q + 1.1 = -25.4 A) {4.0} Answer: C	B) {4.2}	C) {5}	D) {-32}
$45) \frac{2}{5}x - \frac{1}{3}x = 4$ A) {-60} Answer: D	B) {-120}	C) {120}	D) {60}

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

Provide an appropriate response.

- 46) What is the difference between an expression and an equation? Answer: Answers will vary.
- 47) While solving an equation, why can't you multiply both sides of the equation by zero? Answer: Answers will vary.
- 48) What is the Multiplication Property of Equality? Answer: Answers will vary.
- 49) When does the solution of a linear equation not require the use of the Multiplication Property of Equality? Answer: Answers will vary.

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

50) Which one of the following equations in x doesn't require the use of the multiplication property of equality (a, b, c, and d are real numbers, and x is the unknown)?

A)
$$a - b + (c - d)x = 0$$
 B) $x = \frac{c - d}{a - b}$ C) $ax = (b - c)x - d$ D) $\frac{a}{b}x = d - c$

Answer: B

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

51) Write an equation that requires the use of the multiplication property of equality, where both sides must be multiplied by $\frac{13}{5}$ and where the solution is a negative number.

Answer: Answers will vary. One possibility is: $\frac{5}{13}x = -6$.

52) Write an equation that requires the use of the multiplication property of equality, where both sides must be multiplied by 100 and where the solution isn't an integer.

Answer: Answers will vary. One possibility is $\frac{1}{100}x = 0.136$

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

Solve the equation.			
53) $4r + 8 = 28$	D) (C)	()	D) (20)
A) {16}	B) {5}	C) {1}	D) {20}
Answer: B			
54) 3n - 2 = 28			
A) {11}	B) {27}	C) {31}	D) {10}
Answer: D			
55) 13 = 5x - 2			
A) {14}	B) {4}	C) {3}	D) {10}
Answer: C			
56) 65 = -6x + 5			
A) {70}	B) {15}	C) {-10}	D) {66}
Answer: C			
57) 168 = 14x + 14			
A) {144}	B) {2}	C) {11}	D) {140}
Answer: C			
58) -4y + 7 = 3 - 2y			
A) $\left\{-\frac{3}{5}\right\}$	B) $\left\{-\frac{1}{2}\right\}$	C) {2}-	D) $\left\{\frac{1}{2}\right\}$
5	$\left\{ 2\right\}$		2^{\prime} $\{2\}$
Answer: C			
59) - 4r + 9 = -9 - 5r			
	(9)	$\left(1\right)$	D) {- 18}
A) $\left\{-\frac{1}{18}\right\}$	B) $\left\{\frac{9}{0}\right\}$	C) $\left\{\frac{1}{18}\right\}$	
Answer: D			
60) -9b + 8 = 5 - 2b - 6b			
·	$_{\rm B}$ $\left(11 \right)$	(1)	D) $\left\{-\frac{1}{3}\right\}$
A) {3}	B) $\left\{-\frac{11}{7}\right\}$	C) $\left\{\frac{1}{3}\right\}$	D $\left\{-\frac{1}{3}\right\}$
Answer: A			
61) $16(x - 64) = 32$			
A) {66}	B) {62}	C) {64}	D) {32}
Answer: A			

Answer: A

62) $7x - (3x - 1) = 2$ A) $\left\{\frac{1}{10}\right\}$ Answer: B	B) $\left\{\frac{1}{4}\right\}$	C) $\left\{-\frac{1}{4}\right\}$	$D)\left\{-\frac{1}{10}\right\}$
63) $4(4x - 1) = 16$ A) $\left\{\frac{17}{16}\right\}$ Answer: C	B) $\left\{\frac{3}{4}\right\}$	C) $\left\{\frac{5}{4}\right\}$	$D)\left\{\frac{15}{16}\right\}$
64) 2(x + 7) = (2x + 14) A) ∅ Answer: C	B) {0}	C) {all real numbers}	D) {28}
65) $2(x + 6) - (2x + 12) = 0$ A) \emptyset Answer: D	B) {6}	C) {0}	D) {all real numbers}
66) $(y - 8) - (y + 4) = 7y$ A) $\left\{-\frac{3}{7}\right\}$ Answer: D	B) $\left\{-\frac{3}{2}\right\}$	C) {- 2}	$D)\left\{-\frac{12}{7}\right\}$
67) 2(6w + 8) = 2(4w + 24) A) {16} Answer: D	B) {4}	C) {-4}	D) {8}
68) 6(2w - 2) = 4(3w + 2) A) {0} Answer: D	B) {20}	C) {all real numbers}	D) Ø
Solve the equation by first clearing t	he fractions.		
$69) - \frac{1}{6} + z = \frac{5}{6}$ $A) \left\{ \frac{2}{3} \right\}$ Answer: B	B) {1}	C) $\left\{-\frac{2}{3}\right\}$	D) {-1}
70) $\frac{1}{3}(r+6) = \frac{1}{6}(r+8)$ A) {-12} Answer: B	B) {-4}	C) {4}	D) {3}
71) $\frac{1}{3}a - \frac{1}{3} = -4$ A) {11} Answer: B	B) {-11}	C) {13}	D) {-13}

72) $\frac{1}{2}$ f - 4 = 1 A) {-10} Answer: B	B) {10}	C) {-6}	D) {6}
73) $\frac{2}{5}x - \frac{1}{3}x = 2$ A) {-30}	B) {60}	C) {30}	D) {-60}
Answer: C 74) $\frac{1}{4}p - \frac{3}{8}p = 4$ A) {-128}	B) {32}	C) {128}	D) {-32}
Answer: D $75)\frac{1}{7}(x+21) + \frac{1}{3}(x+3) = x - 1$			(105)
A) $\left\{ \frac{63}{11} \right\}$ Answer: D	$B)\left\{-\frac{63}{11}\right\}$	$C)\left\{-\frac{21}{11}\right\}$	$D)\left\{\frac{105}{11}\right\}$
76) $\frac{1}{6}y - (y - \frac{3}{5}) = \frac{1}{30}(y - 1)$ A) $\left\{-\frac{17}{26}\right\}$ Answer: C	B) $\left\{-\frac{19}{34}\right\}$	C) $\left\{\frac{19}{26}\right\}$	D) $\left\{\frac{19}{24}\right\}$
77) $-\frac{2}{3}q + 2q = \frac{6}{5}q + \frac{12}{5}$ A) $\left\{\frac{4}{5}\right\}$ Answer: C	B) {0}	C) {18}	D) $\left\{-\frac{36}{5}\right\}$
78) $\frac{12}{7}x - \frac{1}{21}x = x - \frac{10}{3}$ A) {0} Answer: C	B) $\left\{ \frac{10}{21} \right\}$	C) {-5}	D) $\left\{-\frac{30}{7}\right\}$
Solve the equation by first clearing the 79) $0.05(80) + 0.4x = 0.2(80 + x)$ A) {60} Answer: A	e decimals. B) {30}	C) {50}	D) {70}
80) 0.7x - 0.6(30 + x) = -0.5(30) A) {40} Answer: C	B) {15}	C) {30}	D) {20}

81) 0.92x + 0.96(16 - x) = 15.04 A) {0.08} Answer: D	B) {-0.08}	C) {-8}	D) {8}	
82) 0.02(7000) + 0.04x = 0.035(7 A) {2100} Answer: B	7000 + x) B) {21,000}	C) {210}	D) {21}	
Solve the equation.				
83) - (6y - 3) - (-5y - 8) = -7				
A) {12}	B) {-18}	C) {-4}	D) {18}	
Answer: D				
$84) \ 0.28(x+55) + 0.4(x+70) = -$	-41.6. (Round to the neare	st whole number, if necessar	v.)	
A) {-15}	B) {125}	C) {-125}	D) {15}	
Answer: C				
85) $3(x + 4) - 10x = -7(x - 8) + 1$	10			
A) \emptyset	B) {7}	C) {0}	D) {all real numbers}	
Answer: A				
86) $12(x - 3) = 2(6x - 3) - 30$ A) {0}	B) Ø	C) {-36}	D) {all real numbers}	
Answer: D			D) (all real fallocity)	
$87)\frac{1}{3}(x+3) + \frac{5}{6}(x-2) = x-3$				
A) {-14}	B) Ø	C) {14}	D) {all real numbers}	
Answer: A				
Write the answer to the problem as a	an algebraic expression.			
88) Two numbers have a sum o			D) 51	
A) s – 51 Answer: C	B) s + 51	C) 51 – s	D) 51 + s	
Allswei. C				
89) The product of two numbe	rs is 19. One of the number	s is t. What is the other numb	ber.	
A) $\frac{19}{t}$	B) 19 – t	C) 19t	D) $\frac{t}{19}$	
·			19	
Answer: A				
90) Today the Center City base did they score in these two		he day before yesterday they	v scored y. How many runs	
A) 11 – y runs	B) 11 + y runs	C) 11y runs	D) 11 + 2y runs	
Answer: B				
91) Susan has 7 cats. She gave t to her lonely aunt. How many does she have left?				
A) 7 + t cats	B) t + 7 cats	C) t – 7 cats	D) 7 – t cats	
Answer: D	,	-, -	, , , , , , , , , , , , , , , , , , , ,	

- 92) Bill is q years old. How old will he be in 3 years? How old was he 9 years ago?

 A) q + 9; q 3
 B) q3; 3 9
 C) q + 3; q 9
 D) q + 3; 9 3;

 93) Elizabeth earned 8 dollars a day at her job. Assuming a 5-day work week, how much did she earn in d weeks?

 A) 8d dollars
 B) 40d dollars
 C) 8 + d dollars
 D) 40 + d
 - Answer: B
- 94) A water tank holds G gallons. Since there are 4 quarts per gallon, how many quarts does the tank hold?
 - A) $\frac{4}{G}$ quarts B) $\frac{G}{4}$ quarts C) G + 4 quarts D) 4G quarts

Answer: D

- 95) A theater ticket for adults is A dollars and the price of a child's ticket is C dollars. If 19 adults and 48 children attend the theater one night, how much money did the theater make?
 - A) 48A + 19C dollars B) 19A + 48C dollars C) 19C + CA dollars D) 912AC dollars Answer: B

Provide an appropriate response.

96) Which one of these is not a linear equation?

A) $6y^2 - 3y + 1 = 0$ B) 0.07x - 0.09x = 0.57C) 7x + 9(x - 2) = -5xD) 5t - 11t = -6tAnswer: A

97) True or false: The solution set of the equation 7y – 6 = 7y + 3 is zero. A) True Answer: B

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

98) This pair of equations is equivalent.2x - 4 = 0 and 3x + 8 = 14Answer: True

- 99) The solution set for the equation 6(9s 2) = 54s 12 is given as 0. Is this correct? Explain. Answer: No. The solution is all real numbers.
- 100) Write the steps you would use to solve this equation: 2(x 1) + 8x = -8x. Answer: Answers will vary.
- 101) What value of K makes this equation equivalent to x = 3? 4x 4 = KAnswer: 8
- 102) What value of K makes this equation equivalent to x = 5? 4x + 13x 7 = K + 9Answer: 69

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

e the problem.			h
103) One half of a number is 3 A) 9	B) 18	C) 12	D) 8
Answer: A	,	,	
104) The difference between the	wo positive integers is 40. Or	ne integer is three times as gr	reat as the other. Find the
integers. A) 20 and 40	B) 60 and 100	C) 40 and 60	D) 20 and 60
Answer: D	,	-,	,
105) If -8 is added to a numbe	er and the sum is doubled, th	e result is –13 less than the n	umber. Find the number.
A) 29	B) –5	C) 3	D) -3
Answer: A			
106) The sum of twice a numb number. What is the num		ber is the same as the differer	nce between –2 and the
A) 2	B) 3	C) 1	D) 4
Answer: A			
A) 200 pounds Answer: D 108) A paint mixture contains	B) 160 pounds26 gallons of base for every	C) 400 pounds gallon of color. In 567 gallon	D) 320 pounds s of paint, how many gallons
of color are there? A) 283 gallons	B) 546 gallons	C) 21 gallons	D) 189 gallons
Answer: C	D) 546 ganons	C) 21 ganons	D) 109 ganons
		ne calling to confirm reservat	
Allower. D			
110) A high school graduating are in the class?	class is made up of 591 stud	dents. There are 67 more girls	s than boys. How many boys
A) 591 boys	B) 329 boys	C) 67 boys	D) 262 boys
Answer: D			
	family received 19 pieces o	f mail, consisting of magazin	es hills letters and ads If
they received the same n	umber of magazines as letter	rs, three more bills than letter	
e e	umber of magazines as letter	8 8	

	50 in a roll. A mother gave her	son 91 pennies for his bank a	and had 9 pennies left over.
How many rolls of per A) 3 rolls	B) 4 rolls	C) 2 rolls	D) 5 rolls
,	<i>b)</i> 4 10115	C) 2 10115	D) 5 Tolls
Answer: C			
	Her grandmother donated 10 ca buttons in each pile. How man B) 61 buttons		
Answer: D			
each table and 20 table	30 students each met in the cafe es were used, how many classes	s took the tests?	
A) 17 classes	B) 6 classes	C) 7 classes	D) 4 classes
Answer: D			
115) Find the measure of an A) 16.4°	n angle whose supplement is 11 B) 40.5°	times the measure of its cor C) 8.2°	-
,	B) 40:5	C) 0.2	D) 81°
Answer: D			
116) Find the measure of an A) 82.5°	n angle if its supplement measu B) 11°	rres 46° less than 3 times its o C) 22°	complement. D) 165°
Answer: C			
117) Find the measure of an A) 164°	n angle such that the difference B) 82°	between its supplement and C) 67°	l 3 times its complement is 44°. D) 33°
Answer: C			
			_
118) Find the measure of an A) 57°	n angle, if its supplement meas B) 94°	ures 47° more than twice its (C) 43°	complement. D) 47°
Answer: D			
119) Find the measure of an A) 61°	n angle such that the sum of the B) 56°	e measures of its complemen C) 32°	t and its supplement is 148°. D) 16°
Answer: A	,	,	,
	res of the angles of any triangle easure of angle C is 90° larger th		
A) A and B: 120°; C	C: 30°	B) A and B: 40°; C: 1	.00°
C) A and B: 30°; C:	120°	D) A and C: 100°; B:	40°
Answer: C			
	res of the angles in any triangle angle C is 72 degrees larger that		•
A) 108 degrees	B) 72 degrees	C) 144 degrees	D) 36 degrees
Answer: A	,	,	, 0
7 HOWCE, 71			

12	22) The sum of two consecutive A) –111	e integers is –219. Find the B) –108	larger integer. C) –110	D) -109
	Answer: D	,	,	,
11	23) The sum of three consecutiv	to integers is 242 Find the	intogors	
12	A) 112, 114, 116	B) 113, 114, 115	C) 114, 115, 116	D) 112, 113, 114
	Answer: B			
12	24) The sum of three consecutiv	ve even integers is 216. Find	l the integers.	
	A) 74, 76, 78	B) 65, 66, 67	C) 72, 74, 76	D) 70, 72, 74
	Answer: D			
12	25) Two pages that face each ot page that comes first?	her in a book have 341 as t	he sum of their page number	rs. What is the number of the
	A) 171	B) 170	C) 169	D) 168
	Answer: B			
12	26) If three times the smaller of smaller integer.	two consecutive integers is	s added to four times the larg	ger, the result is 67. Find the
	A) 27	B) 9	C) 8	D) 10
	Answer: B			
12	27) If the first and third of three integer. Find the third integ	÷	are added, the result is 63 les	s than five times the second
	A) 19	B) 21	C) 42	D) 23
	Answer: D			
SHOR	Γ ANSWER. Write the word o	r phrase that best complet	es each statement or answe	rs the question.
Answe	r the question.			
12	28) Which of the following wou number of cars parked in a		wer in an applied problem tl	nat requires finding the
	(i) 42 (ii) 1 (iii) 1,000,010	0 (iv) 110		
	Answer: iii			
MULT	IPLE CHOICE. Choose the on	e alternative that best com	pletes the statement or ans	wers the question.
12	29) The following statement wo	ould be considered a step ir	n solving an applied problem	n. True or false?
	Translate the problem into a A) False	an equation.	B) True	
	Answer: B			
SHOR	Γ ANSWER. Write the word o	r phrase that best complet	es each statement or answe	rs the question.
13	30) If x represents a positive int Answer: -x	eger, how would you expr	ess its negative?	
17		· · · · · · · · · · · · · · · · · · ·	·····	

131) If x represents a negative integer, how would you express its negative? Answer: -x

- 132) How would you express the product of two numbers, r and s? Answer: rs
- 133) Two angles are complimentary. One of the angles is r. How do you express the other angle? Answer: 90 – r
- 134) Express three consecutive integers, all in terms of x, if x is the largest integer. Answer: x - 2, x - 1, x
- 135) Two angles q and r are complimentary. The angle s is supplementary to q. Write an equation showing the relationship between r and s.

Answer: s - 90 = r or r + 90 = s or s - r = 90

136) One number is twice another. If the larger number is m, how do you express the other number in terms of m?

Answer: $\frac{m}{2}$ or $\frac{1}{2}$ m

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

Decide whether perimeter or area would be used to solve a problem concerning the measure of the quantity.

137) Baseboards for a dining room A) Area Answer: B	B) Perimeter
138) Tilling a garden A) Area Answer: A	B) Perimeter
139) Border fence for a garden A) Area Answer: B	B) Perimeter
140) Tile for a kitchen A) Area Answer: A	B) Perimeter
141) Determining the cost for painting a wallA) AreaAnswer: A	B) Perimeter

A formula is given along with the values of all but one of the variables in the formula. Find the value of the variable not given. Round to the nearest hundredth where necessary.

142) P = 2L + 2W; L = 5, W = 9A) 90 B) 28 C) 14 D) 19 Answer: B 143) $V = \frac{4}{3}\pi r^{3}; r = 4, \pi = 3.14$ A) 85.33 B) 803.85 C) 267.95 D) 66.99 Answer: C

144) A = $\frac{1}{2}$ bh; b = 15, h = 17			
	A) 32	B) 32.5	C) 255	D) 127.5
	Answer: D			
145) $d = rt; t = 9, d = 45$			
	A) 5 Answer: A	B) 54	C) 36	D) 0.2
	Allswel. A			
146) $P = 2L + 2W; P = 30, W = 8$	D) 15		D) 22
	A) 11 Answer: C	B) 15	C) 7	D) 22
	Allower. C			
147) $V = \frac{1}{3}Bh; V = 35, h = 7$			
	A) 42	B) 15	C) 5	D) 245
	Answer: B			
148) C = $2\pi r$; C = 43.96, π = 3.14			
	A) 276.07	B) 7	C) 14	D) 47.10
	Answer: B			
149) A = πr^2 ; r = 3, π = 3.14			
	A) 6.14	B) 29.58	C) 9.42	D) 28.26
	Answer: D			
150) I = prt; I = 22, p = 220, r = 0.05			
	A) 2.42	B) 2	C) 242	D) 0.2
	Answer: B			
151) $A = \frac{1}{2}(b + B)h; A = 65, b = 14, b$	B = 12		
	A) 168	B) 39	C) 13	D) 5
	Answer: D			
Use a for	mula to solve the problem.			
) What is the perimeter of a recta	angle of length 10 ft and widt	.h 13 ft?	
	A) 23 ft	B) 46 ft	C) 92 ft	D) 33 ft
	Answer: B			
153) What is the area of a square wi			
	A) 15.21 cm ²	B) 7.8 cm ²	C) 59 cm ²	D) 60.84 cm ²
	Answer: A			
154) Find the area of a triangle with	height 11 m and base 5 m.		
	A) 110 m ²	B) 8 m ²	C) 27.5 m ²	D) 55 m ²
	Answer: C			

155) The area of a trapezoid A) 3 ft	is 63 square feet. If the bases B) 12 ft	are 7 and 14 feet, find the alti C) 6 ft	tude of the trapezoid. D) 1.5 ft
Answer: C			
,	rence of 46π meters. Find the		
A) 23 m	B) 7 m	C) 46 m	D) 12 m
Answer: A			
	carpet has a perimeter of 160 mensions of the carpet?	inches. The length of the carp	et is 20 inches more than the
A) 50 in. by 70 in.	B) 70 in. by 90 in.	C) 30 in. by 50 in.	D) 60 in. by 80 in.
Answer: C			
158) A square plywood plat length of a side.	form has a perimeter which i	s 11 times the length of a side	, decreased by 14. Find the
A) 9 units	B) 1 unit	C) 7 units	D) 2 units
Answer: D			
	third side is 500 feet longer t	eter of 1800 feet. One side is 4 han the shortest side. Find the ft C) 300 ft, 700 ft, 800	e lengths of all three sides.
Answer: C			
160) A baking pan measure	s 9 inches long, 9 inches wide	, and 2 inches deep. What is t	he volume of the pan?
A) 36 in. ³	B) 20 in. ³	C) 162 in. ³	D) 81 in. ³
Answer: C			
-	aped like a rectangular solid v much water is in the reserv	with a base that is 3 meters by oir if it is completely full?	8 meters, and a vertical
A) 168 m ³	B) 63 m ³	C) 192 m ³	D) 392 m ³
Answer: A			

Find the measure of each marked angle.

162)

R x° 3x°

A) 60° and 120° Answer: D B) 90° and 270°

C) 45° and 55°

D) 45° and 135°

16

163)

$$(x + 2)^{\circ} (4x - 147)^{\circ}$$
A) 65° and 115° B) 67° and 23° C) 69° and 111° D) 67° and 113°
Answer: D
164)

$$(2x + 45)^{\circ} (5x + 3)^{\circ}$$
A) 73° and 73° B) 76° and 76° C) 73° and 17° D) 73° and 107°
Answer: A
Solve the formula for the specified variable.
165) $A = \frac{1}{2}bh$ for b
A) $b = \frac{Ah}{2}$ B) $b = \frac{h}{2A}$ C) $b = \frac{2A}{h}$ D) $b = \frac{A}{2h}$
Answer: C
166) $S = 2\pi rh + 2\pi r^{2}$ for h
A) $h = \frac{S - 2\pi r^{2}}{2\pi r}$ B) $h = \frac{5}{2\pi r} - 1$ C) $h = 2\pi (S - r)$ D) $h = S - r$
Answer: A
167) $V = \frac{1}{3}Bh$ for h
A) $h = \frac{3V}{2\pi r}$ B) $h = \frac{B}{3V}$ C) $h = \frac{3V}{B}$ D) $h = \frac{V}{3B}$
Answer: C
168) $1 = \frac{nE}{nr + R}$ for n
A) $n = \frac{-R}{1r - E}$ B) $n = \frac{-1R}{1r - E}$ C) $n = \frac{1R}{1r + E}$ D) $n = IR(r - E)$
Answer: B

169) $P = a + b + c$ for a A) $a = b + c - P$ Answer: D	B) a = b + P - c	C) $a = P + b + c$	D) a = P - b - c
170) $F = \frac{9}{5}C + 32$ for C A) $C = \frac{F - 32}{9}$ Answer: D	B) C = $\frac{9}{5}$ (F - 32)	C) C = $\frac{5}{F - 32}$	D) C = $\frac{5}{9}$ (F - 32)
171) A = $\frac{1}{2}h(b_1 + b_2)$ for b_1 A) $b_1 = \frac{(b_2)2A - h}{h}$ Answer: C	B) $b_1 = \frac{h(b_2) - 2A}{h}$	C) $b_1 = \frac{2A - (h)(b_2)}{h}$	D) $b_1 = \frac{A - h(b_2)}{2h}$
172) $a + b = s + r$ for s A) $s = a + b - r$ Answer: A	B) $s = r(a + b)$	C) s = $\frac{a+b}{r}$	D) $s = \frac{a}{r} + b$
173) $A = P(1 + nr)$ for n A) $n = \frac{P - A}{Pr}$ Answer: B	B) n = $\frac{A - P}{Pr}$	C) n = $\frac{Pr}{A - P}$	D) $n = \frac{A}{r}$
Express the phrase as a ratio in lowest 174) 18 miles to 6 miles A) $\frac{19}{7}$ Answer: D	terms. B) $\frac{1}{3}$	C) $\frac{7}{19}$	D) $\frac{3}{1}$
175) 24 people to 15 people A) $\frac{5}{8}$ Answer: C	B) $\frac{16}{25}$	C) $\frac{8}{5}$	D) $\frac{25}{16}$
176) 68 feet to 36 feet A) $\frac{17}{9}$ Answer: A	B) <u>9</u> 17	C) $\frac{69}{37}$	D) $\frac{37}{69}$
177) 18 inches to 15 inches A) $\frac{16}{19}$ Answer: B	B) $\frac{6}{5}$	C) $\frac{5}{6}$	D) <u>19</u> <u>16</u>

178) 135 cm to 30 cm A) $\frac{2}{9}$	B) $\frac{31}{136}$	C) $\frac{136}{31}$	D) $\frac{9}{2}$
Answer: D			
179) 2 yards to 4 feet	_	_	2
A) $\frac{2}{3}$	B) $\frac{7}{5}$	C) $\frac{5}{7}$	D) $\frac{3}{2}$
Answer: D			
180) 6 feet to 40 inches	2	1	40
A) $\frac{9}{5}$	B) $\frac{3}{20}$	C) $\frac{1}{80}$	D) $\frac{40}{6}$
Answer: A			
181) 4 minutes to 3 hours 4	1		4
A) $\frac{4}{3}$	B) $\frac{1}{45}$	C) 80	D) $\frac{4}{60}$
Answer: B			
182) 60 cents to \$7	7	3	3
A) $\frac{60}{7}$	B) $\frac{7}{600}$	C) $\frac{3}{7}$	D) $\frac{3}{35}$
Answer: D			
Tell which brand is the better buy. 183) Brand X 15 oz for \$6.30 Brand Y 10 oz for \$4.00 A) Not enough information C) Equal value Answer: B		B) Brand Y D) Brand X	
184) Brand A 42 oz for \$28.14 Brand B 36 oz for \$23.40 A) Equal value C) Brand B Answer: C		B) Not enough information D) Brand A	
185) Brand A 24 oz for \$14.64 Brand B 28 oz for \$18.20 A) Not enough information C) Brand A Answer: C		B) Equal value D) Brand B	
 186) Brand X 8 oz for \$2.08 Brand Y 12 oz for \$3.24 A) Equal value C) Not enough information Answer: B 		B) Brand X D) Brand Y	

Solve the equation. 187) $\frac{x}{28} = \frac{5}{14}$ A) $\left\{\frac{5}{2}\right\}$ Answer: C	$B)\left\{\frac{392}{5}\right\}$	C) {10}	D) {20}
188) $\frac{3}{y} = \frac{15}{20}$ A) {4} Answer: A	B) $\left\{\frac{9}{4}\right\}$	C) {40}	D) $\left\{\frac{4}{9}\right\}$
189) $\frac{1}{2} = \frac{r}{13}$ A) $\left\{\frac{13}{2}\right\}$ Answer: A	B) $\left\{\frac{1}{26}\right\}$	C) {26}	D) {13}
$190) \frac{4}{5} = \frac{12}{x+8}$ A) $\left\{\frac{1}{2}\right\}$ Answer: D	B) {23}	C) {13}	D) {7}
191) $\frac{x+6}{7} = \frac{3}{20}$ A) $\left\{\frac{3}{4}\right\}$ Answer: D	B) {-99}	$C)\left\{\frac{141}{20}\right\}$	$D)\left\{-\frac{99}{20}\right\}$
192) $\frac{x+10}{10} = \frac{10}{7}$ A) {30} Answer: C	$B)\left\{\frac{90}{7}\right\}$	C) $\left\{\frac{30}{7}\right\}$	$D)\left\{\frac{170}{7}\right\}$
193) $\frac{4}{5} = \frac{x+2}{x+11}$ A) $\left\{\frac{17}{2}\right\}$ Answer: B	B) {34}	C) $\left\{\frac{34}{9}\right\}$	D) {6}

194) $\frac{3x-8}{3} = \frac{4x+2}{10}$				
$A)\left\{-\frac{37}{9}\right\}$	B) $\left\{\frac{43}{9}\right\}$	C) $\left\{-\frac{37}{21}\right\}$	D) $\left\{\frac{43}{21}\right\}$	
Answer: B				
195) $\frac{1}{3x-5} = \frac{4}{3x+4}$				
A) {24}	B) {9}	C) $\left\{\frac{8}{3}\right\}$	D) $\left\{-\frac{16}{15}\right\}$	
Answer: C				
196) $\frac{4}{4x} = \frac{3}{5x+4}$				
A) $\left\{\frac{1}{2}\right\}$	B) {-8}	C) {16}	D) {- 2}	
Answer: D				
Solve the problem.				
197) If a boat uses 19 gallons of gas A) 390 miles	to go 65 miles, how many ma B) 21 miles	iles can the boat travel on 57 C) 215 miles	gallons of gas? D) 195 miles	
Answer: D	<i>b)</i> 21 miles	C) 210 miles	D) 190 miles	
198) If 4 hours are required to type	12 pages how many hours w	yould be required to type 21	22002	
A) 8 hours	B) 2 hours	C) 3 hours	D) 7 hours	
Answer: D				
199) In a sample of 83 widgets, 7 w widgets?	ere defective. How many def	ective widgets would you ex	pect in a sample of 249	
A) 48 widgets	B) 21 widgets	C) 24 widgets	D) 19 widgets	
Answer: B				
200) The sides of a triangle are 9 ind find its longest side.	ches, 10 inches, and 11 inches	. If the shortest side of a simi	ilar triangle is 45 inches,	
A) 50 inches	B) 55 inches	C) 10 inches	D) 49 inches	
Answer: B				
201) On a map of the Thunderbird Country Club golf course, 1.5 inches equals 45 yards. How long is the 7th hole if the map shows 11.5 inches?				
A) 345 yd	B) 5.9 yd	C) 517.5 yd	D) 776.25 yd	
Answer: A				
202) A label printer prints 8 pages of				
A) 131.1 sec	B) 127.1 sec	C) 129.1 sec	D) 130.1 sec	
Answer: B				

203) If a spring stretches 0.9 m wl attached to it?	hen a 6-kg weight is attac	hed to it, how much will it	t stretch when a 16-kg weight is
A) 4.4 m	B) 5.4 m	C) 1.4 m	D) 2.4 m
Answer: D			
204) Dr. Smith can see 12 patients A) 336 hours	s in 3 hours. At this rate, h B) 20 hours	now long would it take him C) 21 hours	n to see 84 patients? D) 36 hours
Answer: C			
205) The ratio of the distances a p yards with a pitching wedge		-	4 to 5. If a golfer averages 148
A) 139 yd	B) 185 yd	C) 118 yd	D) 157 yd
Answer: B			
206) The ratio of the lengths of str the length of the string that p		and B is 27 to 16. If a strin	ng 96 cm long plays a B, what is
A) 112 cm	B) 162 cm	C) 96 cm	D) 123 cm
Answer: B			
Answer the question about percent. R 207) What is 20% of 200?	ound to the nearest hund	lredth where necessary.	
A) 40	B) 0.4	C) 400	D) 4
Answer: A			
208) What is 170% of 3550?	D) (0.250	C) (025	
A) 603,500 Answer: C	B) 60,350	C) 6035	D) 604
209) What is 88% of 432?	D) 2001 (C 200 1(D) 28.02
A) 38,016	B) 3801.6	C) 380.16	D) 38.02
Answer: C			
210) What is 8.0% of 24?	D	C 10 2	
A) 1.92	B) 0.19	C) 192	D) 19.2
Answer: A			
211) What is 130% of 3290? A) 427,700	B) 4277	C) 42,770	D) 428
Answer: B			
Answer the question about percent. R 212) 125 is what percent of 1890?		nearest tenth of a percent	, if necessary.
A) 6.6%	B) 0.0%	C) 1512.0%	D) 0.1%
Answer: A			
213) 981 is what percent of 789? A) 1.2%	B) 124.3%	C) 0.1%	D) 80.4%
Answer: B			

214) What percent of 2767 is A) 14,563.2% Answer: C	B) 16.9%	C) 0.7%	D) 6.9%
215) 3.3 is what percent of 2 A) 7% Answer: B	3? B) 14.3%	C) 0.1%	D) 697%
216) What percent of 8 is 0.0 A) 37.5% Answer: D	3? B) 266.7%	C) 3.8%	D) 0.4%
217) What percent of 100 is A) 18.3% Answer: A	18.3? B) 0.1%	C) 546.4%	D) 0.2%
218) What percent of 48 is 75 A) 157.5% Answer: C	56? B) 0.1%	C) 1575.0%	D) 0.6%
219) 74.8 is what percent of A) 12,467.0% Answer: B	6? B) 1246.7%	C) 0.8%	D) 8.0%
Answer the question about perce	ent. Round to the nearest wi	nole number where necessa	ry.
Answer the question about perce 220) 90 is 10% of what numb	per?		-
		nole number where necessa C) 9	ry. D) 90
220) 90 is 10% of what numl A) 900	ber? B) 9000		-
220) 90 is 10% of what numb A) 900 Answer: A 221) 16 is 5% of what numb A) 3200	ber? B) 9000 er? B) 32	C) 9	D) 90
 220) 90 is 10% of what number is A) 900 Answer: A 221) 16 is 5% of what number A) 3200 Answer: D 222) 44% of what number is A) 100 	ber? B) 9000 er? B) 32 80? B) 182	C) 9 C) 80	D) 90 D) 320
 220) 90 is 10% of what number A) 900 Answer: A 221) 16 is 5% of what number A) 3200 Answer: D 222) 44% of what number is A) 100 Answer: B 223) 30% of what number is A) 2900 	 ber? B) 9000 er? B) 32 80? B) 182 87? B) 26 	C) 9 C) 80 C) 1	D) 90 D) 320 D) 1820

226) 577 is 13.1% of what numbe A) 4405 Answer: A	er? B) 44,050	C) 440,500	D) 2
227) 67 is 121% of what number? A) 55 Answer: A	B) 146	C) 550	D) 14,600
Solve the problem. 228) The parking lot at a shoppir	ng mall has 55 cars in it. 60% of	f the cars are four-door. How	many cars are
four-door? A) 92 cars	B) 33 cars	C) 9 cars	D) 330 cars
Answer: B			
229) A chemical solution contain A) 5.833 ml Answer: D	ns 6% calcium. How much calci B) 2.1 ml	ium is in 3.5 ml of solution? C) 58.333 ml	D) 0.21 ml
230) An appliance store had mor promotions?	nthly sales of \$81,200 and spen	t 2% of it on promotions. How	v much was spent on
A) \$1624	B) \$4,060,000	C) \$16,240	D) \$406,000
Answer: A			
231) A pension fund invests \$97, is earned per year? A) \$195,200 Answer: D	600 in highway bonds and ear B) \$48,800	ns 5% per year on the investm C) \$1,952,000	nent. How much money D) \$4880
232) The American National Ban	k pays $5\frac{3}{5}$ % interest per year	on certificate accounts. What i	s the annual income on a
certificate account of \$79,40 A) \$1,588,000 Answer: C	0? Round to the nearest dollar. B) \$44,460	C) \$4446	D) \$158,800
233) The appliance store where t discount of \$81. What was t A) \$700 Answer: C	he Jordans shop offers a 9% di heir total bill before the discou B) \$7		
234) There are 7150 self-employe number? Round to the near A) 64,400	-	presents 9% of the total numb C) 79,444	er, what is the total D) 644
Answer: C	·		
A) 9.4%	gh School earned \$504 selling c en reached? Round to the nearc B) 94%		-
Answer: C			

	ech Support spent \$34,280 thi ales was spent on advertising	•		hat percent of total
	A) 0.4% Answer: B	B) 4%	C) 250%	D) 25%
	A Panasonic KXP1124 printer p		. What was the percent of pri	ce reduction? Round to
u	he nearest tenth of a percent, i A) 616.9%	B) 119.3%	C) 16.2%	D) 83.8%
A	Answer: C	,		,
	appropriate response. Vhich one of the following rati	ios is not the same as 5 to 6?		
,	A) 50 to 60	B) 6 to 5	C) 10 to 12	D) 200 to 240
A	Answer: B			
239) V	Vhich one of the following rat	ios is not the same as 4 to 6?		
	A) 2 to 3	B) 6 to 4	C) 8 to 12	D) 20 to 30
A	Answer: B			
240) V	Vhich one of the following rat	ios is not the same as 0.75?		
	A) 3 to 4	B) 8 to 6	C) 75 to 100	D) 0.750
A	Answer: B			
241) V	Vhich one of the following rat			
	A) 130 to 100	B) 1.30	C) 13 to 10	D) 1 to 3
A	Answer: D			
242) V	Vhich one of the following rat	ios is not the same as 4 to 16?		
	A) 4 to 1	B) 0.25	C) 40 to 160	D) 2 to 8
A	Answer: A			
243) V	Vhich one of the following rat	ios is not the same as 5 to 2?		
	A) 10 to 4	B) 2 to 5	C) 50 to 20	D) 25 to 10
A	Answer: B			
SHORT AN	SWER. Write the word or pl	hrase that best completes eac	ch statement or answers the	question.
	Give three ratios that are equiv Answer: Answers will vary. A			
MULTIPLE	CHOICE. Choose the one al	ternative that best complete	s the statement or answers t	he question.
	A ratio is a reduced proportion	_		
·	A) True		B) False	
A	Answer: B			
246) A	A proportion equates two ratio	s. True or false?		
	A) True		B) False	
A	Answer: A			

247) In a proportion, if one number from one of the ratios is unknown, how many of the remaining numbers are needed to find its value?

A) NoneB) TwoC) OneD) ThreeAnswer: D

Write an inequality using the variable **x** that corresponds to the set graphed on the number line. 248)

249)

- - - -

250)

-9 -8 -7 -6 -5 -4 -3	-2 -1 0 1 2 3 4 5 6 7	; ; ;) 8 9	
A) x < 4	B) x > 4	C) x ≤ 4	D) x ≥ 4
Answer: D			

251)

252)

253)

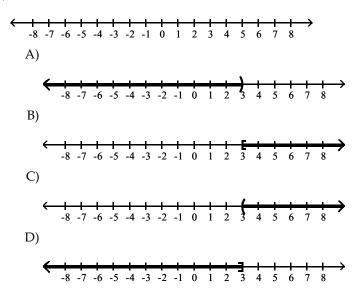
-9 -8 -7 -6 -5 -4 -3 -2 -1 0	1 2 3 4 5 6 7 8 9		
A) $0 \le x < 4$	B) $0 \le x \le 4$	C) $0 < x < 4$	D) 0 < x ≤ 4
Answer: A			
Write the inequality in interval notation	1.		
255) $x > 0$	\mathbf{D}	()	\mathbf{D}
A) (0, ∞)	B) (-∞, 0]	C) [0, ∞)	D) (-∞, 0)
Answer: A			
256) x < 0			
A) [0, ∞)	B) (-∞, 0)	C) (-∞, 0]	D) (0, ∞)
Answer: B			
257) x ≥ -3			
Á) [−3 ∞)	B) (-∞, - 3]	C) (−3, ∞)	D) (-∞, -3)
Answer: A			
258) x ≤ -2			
A) (-∞, - 2]	B) [−2, ∞)	C) (−2, ∞)	D) (-∞, - 2)
Answer: A			
259) 3 ≤ x ≤ 7			
A) [3, 7]	B) [3, 7)	C) (3, 7)	D) (3,7]
Answer: A			
260) -5 < x < -1			
A) [-5, -1)	B) (-5, -1)	C) (-5, -1]	D) [-5, -1]
Answer: B			
261) 0 ≤ x < 4			
A) (0, 4)	B) [0, 4]	C) (0, 4]	D) [0, 4)
Answer: D			

Graph the inequality.

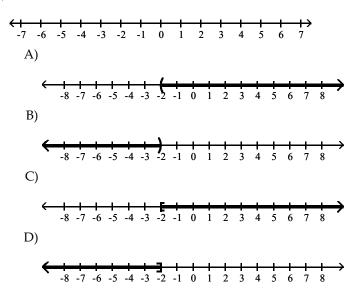
262) x > -3 $\stackrel{\longrightarrow}{8}$ ← -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 A) € -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 B) € ÷ -3 -2 -1 0 1 2 3 4 5 6 7 8 -8 -7 -6 -5 -4 C) 4 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 D) € -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8

Answer: D

263) x < 3

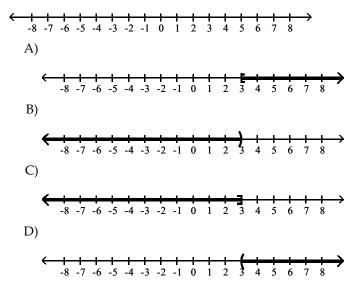


Answer: A

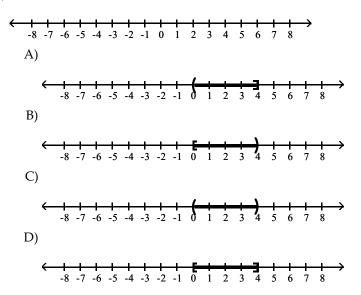


Answer: C

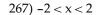


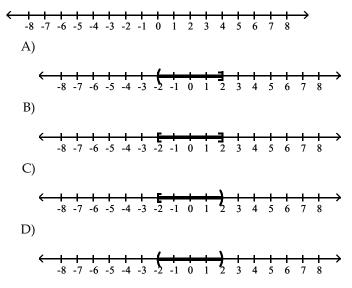


Answer: C

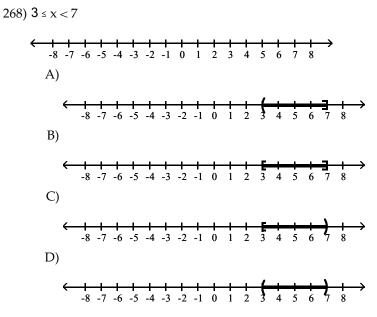


Answer: D





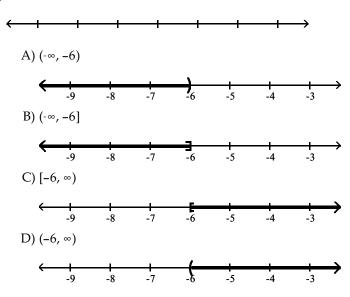
Answer: D



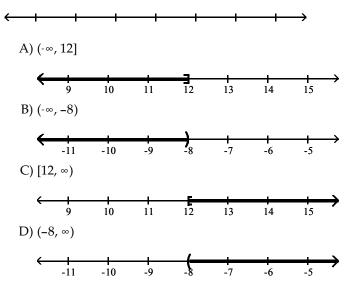


Solve the inequality, then graph the solution.

269) a + 8 < 2

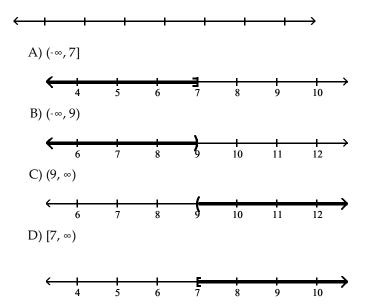


Answer: A

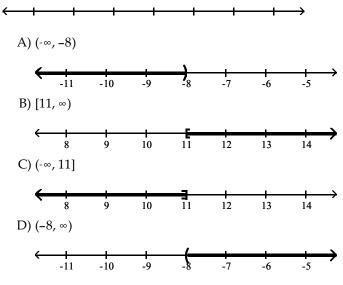




271) 9c – 3 ≤ 8c + 4

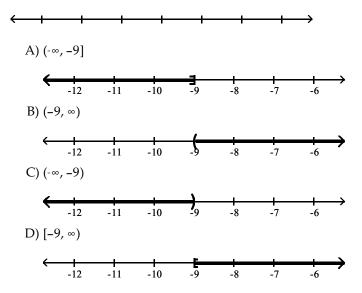


Answer: A

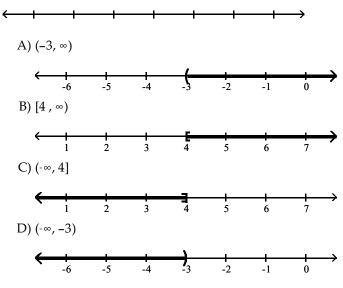


Answer: B

273) f + 2 < -7

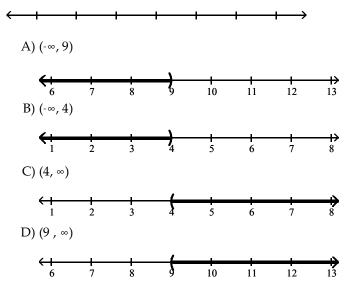


Answer: C

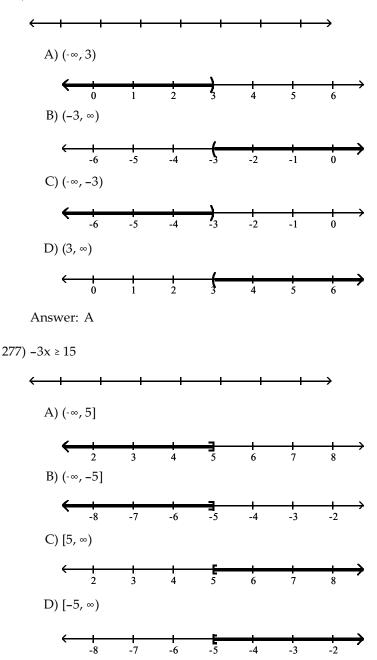


Answer: B

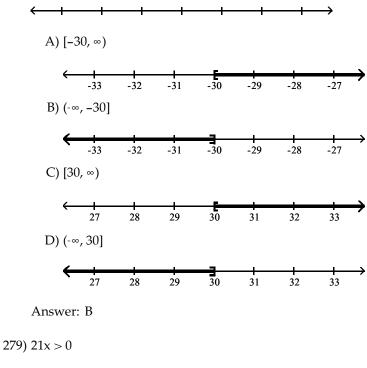
275) 3x < 12

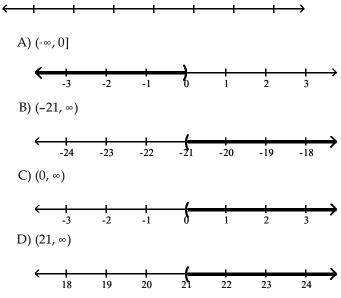


Answer: B

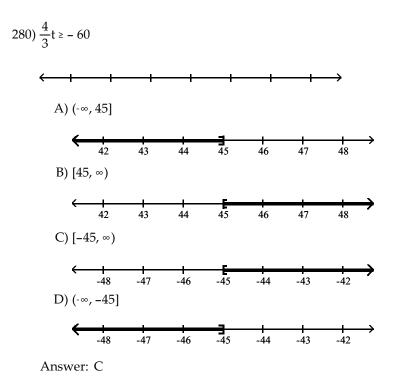


Answer: B

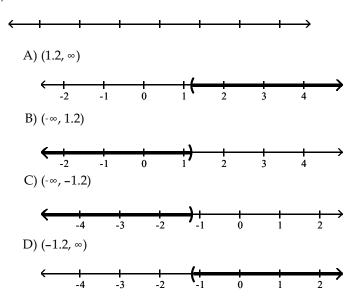




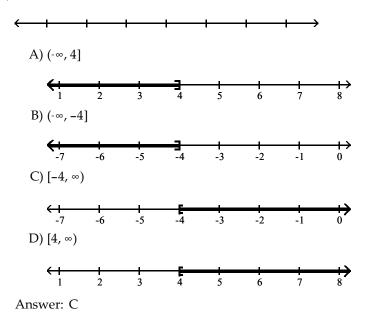
Answer: C



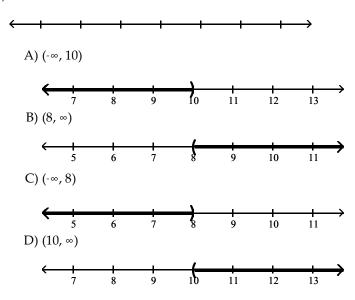
281) -0.4z > - 0.48



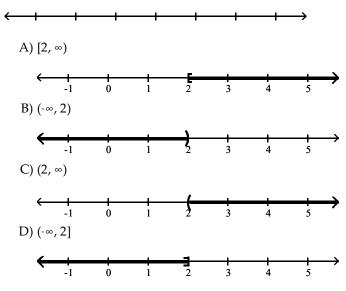
Answer: B



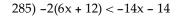
283) 4x + 2 - 7x < 10 - 5x + 8

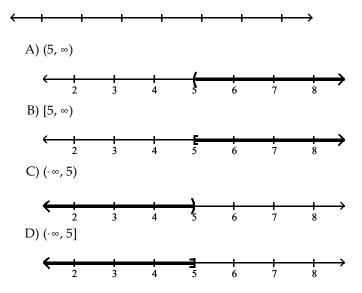


Answer: C

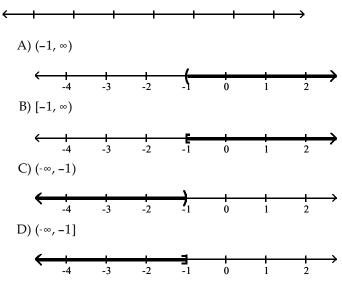


Answer: C



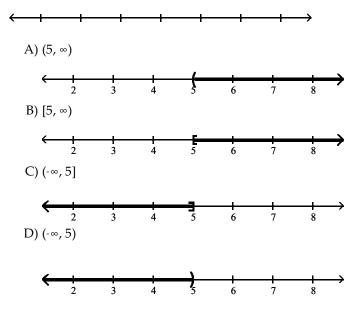


Answer: C

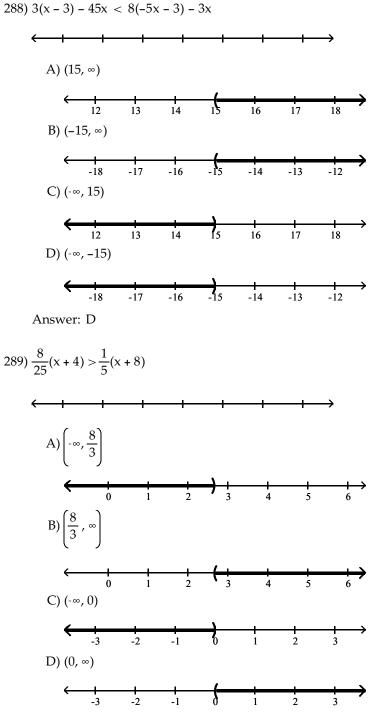


Answer: B

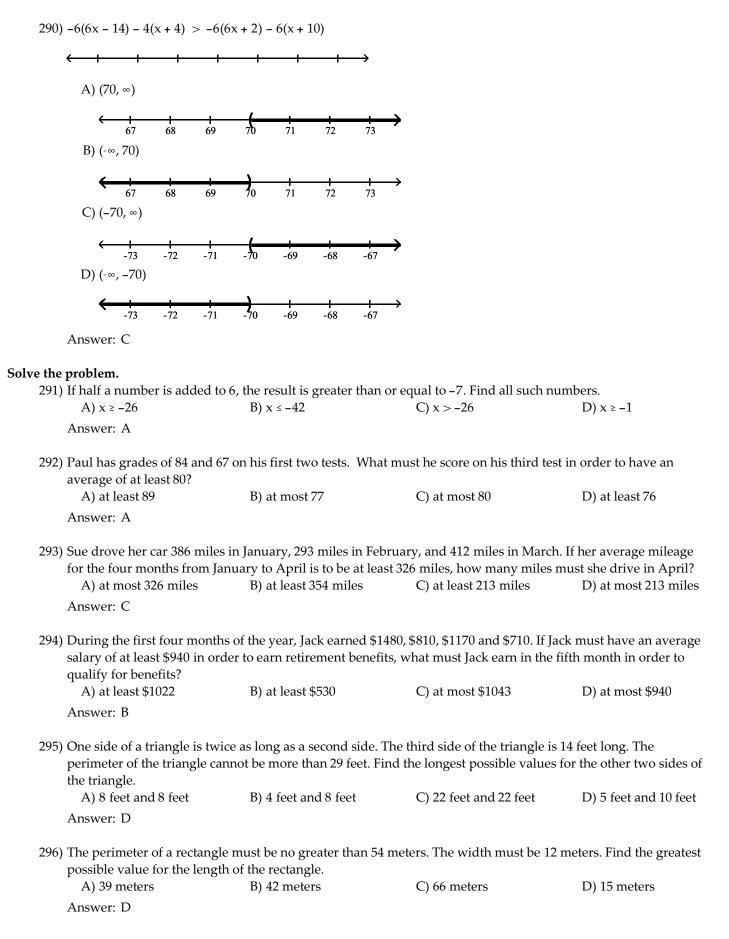
287) 21x - $3 \le 3(6x + 4)$



Answer: C



Answer: B



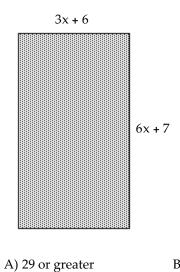
297) A bag of marbles has two	5	green marbles, and the bag h	as at least 51 marbles in it. At	
least how many green m	arbles does it have?			
A) At least 34 green m	arbles	B) At least 18 green r	narbles	
C) At least 17 green m	arbles	D) At least 26 green r	D) At least 26 green marbles	
Answer: C				
298) Jon has 674 points in his receive credit for the clas term to receive credit for	ss. What is the minimum nur	% of the 1100 points possible nber of additional points he r	5	
A) 63 points	B) 426 points	C) 452 points	D) 737 points	
Answer: A	-	-	-	
299) The formula for converti	ng Fahrenheit temperature t	o Celsius is C = $\frac{5}{9}$ (F - 32). If a	a bottle of prescription	
medicine is to be kept be	low 25° Celsius, how would	vou describe this warning us	sing Fahrenheit temperature?	
1	A) It must be kent below 46° Fabrenbeit B) It must be kent below 103° Fabrenbeit			

A) It must be kept below 46° Fahrenheit.C) It must be kept below -18° Fahrenheit.

B) It must be kept below 103° Fahrenheit.D) It must be kept below 77° Fahrenheit.

Answer: D

300) For what values of x would the rectangle have a perimeter of at least 278?



B) 29 or less

C) 14 or less

D) 14 or greater

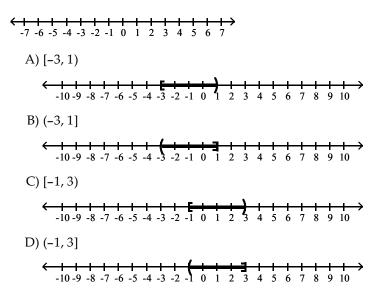
Answer: D

Solve the inequality, then graph the solution.

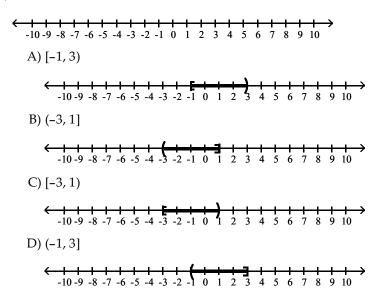
$301) -9 < 4b + 3 \le 7$
H = 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1
← + + + + + + + + + + + + + + + + + + +
-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 C) [-3, 1)
-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10 D) (-3, 1]
-10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9 10

Answer: D

302) $-2 < -5a + 3 \le 18$

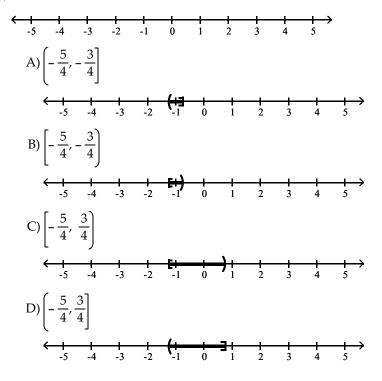


Answer: A



Answer: C

304) $4 < 1 - 4x \le 6$





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

Provide an appropriate response.

305) If you graphed x < -3, would you use a parenthesis or a square bracket? Explain why.

Answer: A parenthesis. A parenthesis means the end point is not included.

Test Bank for Introductory and Intermediate Algebra 6th Edition by Lial IBSN 9780134768533

Full Download: http://downloadlink.org/product/test-bank-for-introductory-and-intermediate-algebra-6th-edition-by-lial-ibsn-9780

- 306) If you graphed $x \le 7$, would you use a parenthesis or a square bracket? Explain why.
 - Answer: A square bracket. A square bracket means the end point is included.

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

307) The three-part inequality a < x ≤ b means "a is less than x and x is less than or equal to b". Which of these inequalities is not satisfied by any real number x?
A) 0 < x ≤ 4
B) -8 < x ≤ -7
C) -5 < x ≤ -11
D) -2 < x ≤ 6
Answer: C

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

- 308) Under what conditions must the inequality symbol be reversed when solving an inequality? Answer: When multiplying or dividing by a negative number.
- 309) If b < 0, is it true that $b^2 > b$? Explain. Answer: Yes, since $b^2 \ge 0 > b$.
- 310) In solving the inequality $2x \le -10$, would you have to reverse the inequality symbol? Explain why. Answer: No. Dividing by a negative number is not involved.