Test Bank for Elementary and Intermediate Algebra Concepts and Applications 7th Edition by Bittinger Ellenbogen and Johnson ISBN 013446270X 9780134462707

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

Choose the word or statement that an	swers the question.		
1) What word means to find all			
A) Equivalent	B) Eliminate	C) Solution	D) Solve
Answer: D			
 2) What does the equation a = A) a and b sometimes star B) a and b never stand for C) a and b stand for the sa D) a and b stand for the sa 	nd for the same number. r the same number. ame number in certain cir	cumstances.	
Answer: D			
 3) When you use the addition p A) You subtract the same B) You add or subtract the C) You add the same num D) You add and subtract the 	number from both sides of e same number to both si- ber to both sides of the e	of the equation. des of the equation. quation.	
Answer: B			
4) What is the principle used toA) Opposite principle	$p \text{ solve } \frac{7}{2}x = -4?$	B) Addition principle	
C) Multiplication principl	e	D) Solution principle	
Answer: C			
5) What is the principle used to	$p \text{ solve} \frac{7}{2} + x = -4?$		
A) Additive identity princ C) Multiplicative inverse j	1	B) Addition principle D) Multiplication princip	le
Answer: B			
Solve using the addition principle. 6) b - 4 = 5			
Á) 1	B) -1	C) 9	D) -9
Answer: C			·
7) z + 4 = 6			

Answer: C

8) z $-\frac{2}{13} = 0$ A) $\frac{2}{13}$ Answer: A	B) - <u>13</u> 2	$C)\frac{13}{2}$	D) - <u>2</u> 13
9) 6 = b + 2 A) -4 Answer: C	B) -8	C) 4	D) 8

10) 29 = x - 5 A) -24 Answer: C	B) 24	C) 34	D) -34
11) b - 7.17 = 0 A) -7.17 Answer: B	B) 7.17	C) -6.17	D) 6.17
12) a - 4 =13 A) -17 Answer: B	B) 17	C) -9	D) 9
13) -13.5 - x = 13.6 A) -0.1 Answer: D	B) 27.1	C) 0.1	D) -27.1
14) x + $\frac{1}{11} = \frac{10}{11}$ A) - $\frac{9}{11}$ Answer: B	B) 9 11	C) 9 22	D) ¹
15) x $-\frac{1}{9} = \frac{7}{27}$ A) $\frac{4}{27}$ Answer: C	B) <u>8</u> 27	C) 10 27	D) <u>-5</u> 18
Solve using the multiplication	principle.		
$16)^{\frac{X}{2}} = -7$ -9 A) -16 Answer: C	B) -17	C) 63	D) 0
17) -5 = <u>a</u> 9 A) -1 Answer: B	B) -45	C) 3	D) 4
18) <u>n</u> = 11 5 A) 15 Answer: C	B) 16	C) 55	D) 2
19) -7a = 28 A) -35 Answer: B	B) -4	C) 1	D) 35

Answer: B

20) -15 =3k A) -5 Answer: A	B) 1	C) 18	D) -18
21) -36.9 = -4.1c A) 2.0 Answer: D	B) 32.8	C) -32.8	D) 9.0
22) -2x = -8 A) 6 Answer: C	B) -6	C) 4	D) 2
23) 4b = -48 A) 52 Answer: D	B) 1	C) -52	D) -12
$24)\frac{3}{4}x = 27$ A) 36	B) <u>111</u> 4	C) <u>81</u> 4	D) <u>105</u> 4
Answer: A $25) \frac{9x}{10} = \frac{6}{5}$ A) $\frac{3}{10}$ Answer: B	B) ⁴ / ₃	C) <u>27</u> 25	D) $\frac{3}{4}$
Solve the equation. 26) x - 116.221 = -528.93 A) 4.551 Answer: B	B) -412.709	C) 0.22	D) -645.151
27) -527.602 = 49.718 + x A) -10.612 Answer: B	B) -577.32	C) -0.094	D) -477.884
28) 214.812x = 851.457 A) 3.964 Answer: A	B) 182,903.181	C) 0.252	D) 636.645
29) <u>x</u> = 17.761 432.142 A) 449.903 Answer: D	B) 0.041	C) 24.331	D) 7675.274

Select the equivalent equation that could be the next step in finding a solution to the equation.

30) $6x + 5 = 8$	1	0 1	10
A) 6x = 13	B) 6x = 3	C) x = $\frac{1}{2}$	D) x = $\frac{13}{6}$
Answer: B 31) 7x = 9			
A) $x = \frac{7}{2}$	B) $x = -\frac{9}{7}$	C) $x = \frac{9}{7}$	D) x =- <u>7</u>
9	7	C) ¹¹ 7	9
Answer: C			
32) $8(x - 2) = 8$			
A) $8x - 2 = 8$	B) $8(x - 2) - 8 = 0$	C) $8x - 16 = 8$	D) $8(x - 2) + 8 = 0$
Answer: C			
33) $7x = 3 + 6x$			
A) 13x = 3	B) $7x - 6x = 3$	$C)\frac{7x}{6x} = 3$	D) $\frac{7}{6}x = 3$
Answer: B			
Solve the equation.			
34) $8r + 6 = 86$	\mathbf{P}	() 70	
A) 10 Answer: A	B) 76	C) 72	D) 4
35) 4n - 5 = 11			
A) 4	B) 16	C) 12	D) 7
Answer: A			
36) 27 = 7x - 8			
A) 11	B) 32	C) 5	D) 28
Answer: C			
37) -9 = -9x + 9			
A) 2	B) -5	C) -9	D) 8
Answer: A			
38) 182 = 17x + 12			
A) 1	B) 157	C) 153	D) 10
Answer: D			
39) $154 = 11x + 11x$			
A) $\frac{1}{7}$	B) 132	C) 176	D) 7
Answer: D			

40) 19x - 9x = -30 A) -20	B) -40	C) -3	D) - <u>1</u> 3
Answer: C 41) 7y + 9 = -6 + 2y A) - 3	B) 3	$C)\frac{1}{3}$	D) - <u>1</u> 3
Answer: A 42) $-3w + 10 = -9 + 3w$ A) $\frac{6}{19}$ Answer: C	B) 0	C) <u>19</u> 6	D) - <u>6</u> 19
43) -9b + 9 + 7b = -3b + 14 A) -14 Answer: C	B) 14	C) 5	D) -9
44) $10y - 2 = 9 - 9y$ A) $-\frac{19}{11}$ Answer: B	B) <u>11</u> 19	C) $\frac{1}{7}$	D) <u>19</u> 11
45) 10m - 8 = 9 + 8m A) $\frac{17}{2}$ Answer: A	B) 18	C) - <u>2</u> 17	D) <u>2</u> 17
46) -6p + 3 = -8 + 7p - 10p A) $-\frac{1}{15}$ Answer: C	B) <u>3</u> 11	C) $\frac{11}{3}$	D) - <u>3</u> 11
47) 3y - 6 + y = 9 + 4y - 3y A) 1	B) 5	$C)\frac{3}{2}$	D) 3
Answer: B $48)\frac{f}{5} - 5 = 1$			
A) 30 Answer: A	B) -30	C) -16	D) 16
$49)\frac{2x}{5} - \frac{x}{3} = 4$ A) -120 Answer: C	B) -60	C) 60	D) 120

$50)\frac{p}{3} - \frac{3p}{8} = 2$ A) 46 Answer: B	B) -48	C) 48	D) -46
$51)\frac{a}{3} - \frac{1}{3} = -6$ A) 17 Answer: D	B) -19	C) 19	D) -17
52) -4.9q = -19.8 - 1.6q A) -23 Answer: B	B) 6	C) 4.0	D) 4.4
53) -8.8q + 1.9 = -20.6 - 1.3q A) 3 Answer: A	B) 2.6	C) 2.7	D) -30
54) -6.1 = y + 3.4 A) -9.5 Answer: A	B) 2.7	C) 9.5	D) -2.7
55) -6.5 = z - 6.4 A) 12.9 Answer: D	B) -12.9	C) 0.1	D) -0.1
$56)\frac{21}{20}x + \frac{1}{20}x = 5x + \frac{1}{10}x + \frac{19}{10}x$ $A)\frac{-2}{103}$ Answer: C	B) - <mark>-1</mark> 97	C) - <mark>-2</mark> 97	_1 D)
$57)^{\frac{4}{2}} + \frac{1}{x} = 5$ 5 6 $() \frac{126}{5}$ Answer: A	B) <u>6</u> 5	C) 114 5	D) <u>5</u> 6
58) 3(2z - 2) = 5(z + 3) A) -9 Answer: D	B) 12	C) 9	D) 21
59) $-6x + 4(-2x - 4) = -23 - 7x$ A) $\frac{39}{7}$	B) 1	C) - 1	D) $\frac{13}{7}$

Answer: B

60) 4(x - 16) = 8 A) 8 Answer: B	B) 18	C) 16	D) 14
Answer: B 61) $6x - (3x - 1) = 2$ A) $-\frac{1}{3}$ Answer: B	B) $\frac{1}{3}$	C) - <u>1</u> 9	D) ¹ / ₉
62) 4(5x - 1) = 16 A) 1 Answer: A	B) <u>3</u> 4	C) <u>3</u> 5	<u>17</u> D) ₂₀
Answer: A 63) $(y - 8) - (y + 7) = 9y$ A) $-\frac{5}{3}$ Answer: A	B) - <u>5</u> 2	C) - <u>15</u> 8	D) - <u>2</u> 9
$64)\frac{1}{3}(6x - 9) = \frac{1}{2}(x - 4)$ A) 1	B) <u>1</u> 6	C) -6	D) -1
Answer: D 65) (y - 5) - (y + 4) = 6y A) $-\frac{1}{4}$ Answer: C	B) - <u>1</u> 6	C) - <u>3</u> 2	D) - <u>9</u> 4
$66)\frac{2}{3} \begin{pmatrix} 11x & -\frac{1}{6} \\ & 6 \end{pmatrix} -\frac{3}{4} = \frac{1}{4}$ A) $\frac{5}{33}$ Answer: A	B) <u>9</u> 88	C) $\frac{7}{44}$	D) $\frac{1}{33}$
67) 0.9(5x + 15) = 2.3 - (x + 3) A) - <u>142</u> 55 Answer: A	B) - <u>62</u> 23	C) - <u>23</u> 62	D) - <u>55</u> 142
Solve. Label any contradictions of $68) 4(x + 2) = 4x + 8$	r identities.		

68) 4(x + 2) = 4x + 8 A) 2 C) all real numbers; identity Answer: C

69) 12x - 44 = 3(4x - 12) A) all real numbers; identity C) no solution; contradiction Answer: C	B) 4 D) 1
70) 6m + 30 = 3(2m + 10) A) all real numbers; identity C) 2 Answer: A	B) 0 D) no solution; contradiction
71) 6x + 6 = 6(x + 8) + 3 A) 3 C) all real numbers; identity Answer: D	B) -12 D) no solution; contradiction
72) 5(x + 2) - 2x - 5 = 5 + 3x A) all real numbers; identity C) 4 Answer: A	B) no solution; contradiction D) 0
73) 18(x - 1) = 2(9x + 5) - 28 A) no solution; contradiction C) 0 Answer: B	B) all real numbers; identity D) 9
74) $-7(x - 9) + 2x = -5(x + 5) - 2$ A) 0 C) -16 Answer: B	B) no solution; contradiction D) all real numbers; identity

Solve the problem.

75) At many colleges, the number of "full-time-equivalent" students f is given by

 $f = \frac{n}{15}$ where n is the total number of credits for which students enroll in a given semester. Determine the

number of full-time-equivalent students on a campus in which students registered for a total of 23,625 credits. A) 1575 B) 354,375 C) 23,610 D) 23,640 Answer: A

76) The wavelength w, in meters per cycle, of a musical note is given by $w = \frac{r}{f}$, where r is the speed of the sound in f

meters per second and f is the frequency in cycles per second. The speed of sound in air is 344 m/sec. What is the wavelength of a note whose frequency in air is 26 cycles per second? Round to the nearest tenth of a meter per cycle.

A) 8944.0 meters per cycle	
C) 0.1 meters per cycle	

B) 13.2 meters per cycle D) 318.0 meters per cycle

Answer: B

	le with length L and width 6 meters and width 8 mete		= 2L + 2W. Find the perimeter
A) 28 meters	B) 20 meters	C) 96 meters	D) 14 meters
Answer: A			
78) The volume of a sphere w	ith radius r is given by the	formula V = $\frac{4}{3}\pi r^3$. Find the	volume of a sphere with
radius 2 meters. Use 3.14	for the value of π .		
A) 16.75 m ³	B) 10.67 m ³	C) 33.49 m ³	D) 100.47 m ³
Answer: C			
79) The area of a triangle with	base b and height h is give	n by the formula A = $\frac{1}{2}$ bh. F	ind the area of a triangle with
base 2 meters and height	17 meters.		
A) 34 m ²	B) 19 m ²	C) 19.5 m ²	D) 17 m ²
Answer: D			
80) The area of a circle with ra centimeters. Use 3.14 for 7		ala A = πr^2 . Find the area of a	a circle with radius 9
A) 254.34 cm ²	B) 28.26 cm ²	C) 88.74 cm ²	D) 12.14 cm ²
Answer: A			
81) When a ball is thrown upv	-		n meters) after t seconds is
	20t - $4.9t^2$. Find the height		D) 20 (motors)
A) 15.9 meters Answer: A	B) 45.3 meters	C) 55.1 meters	D) 30.6 meters
Answel. A			
Solve the formula for the indicated	letter.		
82) A = $\frac{1}{2}$ bh, for h			
A) h = <u>2A</u>	B) h = <u>Ab</u>	C) h = <u> </u>	D) h = <u>b</u>
b	2	2b	2) II 2A
Answer: A			
83) V = $\frac{1}{3}$ Bh for B			
A) B = <u>h</u>	B) B = <u>3h</u>	C) B = $\frac{3V}{2}$	D) B = <u>V</u>
3V	V	h	3h
Answer: C			
84) $F = \frac{9}{10}C + 32$ for C			

84)
$$F = \frac{9}{5}C + 32$$
 for C
A) $C = \frac{F - 32}{9}$
B) $C = \frac{9}{(F - 32)}$
C) $C = \frac{5}{(F - 32)}$
D) $C = \frac{5}{F - 32}$

Answer: C

85) a + b = s + r for s

A) $s = r(a + b)$	B) s = a + b - r	C) s = $\frac{a+b}{r}$	D) s = <u>a</u> + b r
Answer: B		1	
86) x = $\frac{W + y + z}{6}$ for y			
6 A) y = 6x - 6w - 6z Answer: C	B) y = x - w - z - 6	C) y = 6x - w - z	D) y = 6x + w + z
87) P = s ₁ + s ₂ + s ₃ for s ₃ A) s ₃ = P - s ₁ - s ₂ Answer: A	B) s3 =s1 + P - s2	C) s3 = P + s1 + s2	D) s3 = s1 + s2 - P
88) A = $\frac{1}{2}$ h(b1 + b2) for b1 A) b1 = $\frac{hb2 - 2A}{h}$ Answer: B	B) $b_1 = \frac{2A - hb_2}{h}$	C) $b_1 = \frac{A - hb_2}{2h}$	D) $b_1 = \frac{2Ab_2 - h}{h}$
89) d = rt for r A) r = $\frac{t}{d}$ Answer: D	B) r = d - t	C) r = dt	D) r = $\frac{d}{t}$
90) P = 2L + 2W for W A) W = P- L	B) W = $\frac{P - L}{2}$	C) W =d - 2L	D) W = $\frac{P - 2L}{2}$
Answer: D 91) A = P(1 + nr) for r A) r = $\frac{Pn}{A - P}$ Answer: B	B) r = $\frac{A}{\frac{P}{Pn}}$	C) r = <u>A</u> n	D) r = <u>P - A</u> Pn
$92)^{-\frac{1}{2}} + \frac{1}{e} = c \text{ for } b$ $a b$ $A) b = \frac{1}{e} - a$ c Answer: B	B) b = $\frac{a}{ac - 1}$	C) b = $\frac{1}{ac}$	D) b = ac - <u>1</u> a
93) $\frac{1}{a} + \frac{1}{b} = \frac{1}{c}$ for c A) c = a + b	B) c = $a + b$ ab	<u>ab</u> A s n w	er: C

C) c =

a + b D) c = ab(a + b)

94) I = Prt for r (simple interest) A) r = P- tI	B) r = <u>I</u> Pt	C) r = $\frac{P - 1}{It}$	D) r = $\frac{P - I}{1 + t}$
Answer: B 95) S = $4\pi r^2$, for r^2 (surface area of a sphere with A) r^2 = S - 4π	radius r) B) $r^2 = \frac{S}{8\pi}$	C) $r^2 = \frac{S}{4\pi}$	D) $r^2 = \frac{S}{\pi} - 4$
Answer: C			
Choose the most appropriate translation 96) What percent of 59 is 22? A) n = (0.22)59 Answer: C	on of the question. B) n = (0.59)22	C) n · 59 = 22	D) n · 22 = 59
97) 99 is 46% of what number? A) p = 0.46 · 99 Answer: C	B) p = 0.99p	C) 99 = 0.46p	D) p · 99 = 46
98) 48 is what percent of 69? A) q = 48 · 0.69 Answer: B	B) q · 69 = 48	C) q = 69 · 0.48	D) q · 48 = 69
99) What is 41% of 54? A) t = 0.41 · 54 Answer: A	B) t = 41 · 54	C) 0.41t = 54	D) t = 0.54 · 41
100) 57% of what number is 36? A) 36 = 0.57y Answer: A	B) 0.36 = 57y	C) 57 = 0.36y	D) 0.57 = 36y
Convert the percent notation in the ser 101) The amount of argon in the atr Source: http://www.nineplane A) 0.0016 Answer: D	nosphere of Mars is 1.6%.	C) 1.6	D) 0.016
102) Jupiter emits 67% more heat th Source: http://www.infoplease A) 0.67 Answer: A		C) 0.067	D) 6.7
103) The unemployment rate was A) 0.055 Answer: A	5.5% for the month. B) 0.0055	C) 0.55	D) 5.5

Source: Bureau of Labor	Statistics http://www.bls.	accounted for 15 percent of total gov/news.release/homey.nr0.h	itm
A) 15 Answer: D	B) 1.5	C) 0.015	D) 0.15
than 35% of calories.		culture recommend that Americ /dga2005/recommendations.ht C) 0.03	
Answer: B	B) 0.30	C) 0.03	D) 50.0
Convert to decimal notation. 106) 54%			
A) 0.54	B) 0.054	C) 5.4	D) 0.43
Answer: A			
107) 40%	D) 0.04		
A) 4 Answer: D	B) 0.04	C) 0.29	D) 0.4
Allswei. D			
108) 35.2%	B) 0 252	C > 0.0252	D > 2 = 2
A) 0.242 Answer: B	B) 0.352	C) 0.0352	D) 3.52
Allower. D			
109) 100%	D) 1 01	C 10	D) 0.1
A) 1 Answer: A	B) 1.01	C) 10	D) 0.1
THISWEI. T			
110) 300%	D) 2 01		
A) 30 Answer: D	B) 3.01	C) 0.3	D) 3.0
Allswei. D			
111) 224%			
A) 2.25 Answer: B	B) 2.24	C) 0.224	D) 22.4
Answer. D			
112) 0.2%			
A) 0.2	B) 0.02	C) 0.003	D) 0.002
Answer: D			
113) 7.53%			
A) 0.753	B) 0.0753	C) 0.00753	D) 0.0653
Answer: B			
114) 0.34%			
A) 0.034	B) 0.0034	C) 0.34	D) 0.0044
Answer: B			

Source: http://ods.od. A) 0.20%	nih.gov/factsheets/selenium.a B) 2.0%	C) 20%	D) 200%
Answer: C			
116) The average amount	of water in wheat flour is 0.11	9 of the weight.	
	said.gov/our_work/humanitari		-
A) 1.19%	B) 11.9%	C) 119%	D) 0.119
Answer: B			
	ers are diagnosed in people 5		
Source: <u>http://www.ca</u> A) 7.7%	ancer.org/docroot/CRI/content/ B) 77%	<u>CRI_2_2_1x_Who_gets_cance</u> C) 0.77%	<u>r .asp?sitearea</u> = D) 770%
Answer: B	2)11/0	C) 0.1770	2)11010
	· · · · · · · · · · · · · · · · · · ·		6 11 1 11
· •	f otitis media by the third birt idcd.nih.gov/health/hearing/		of all children.
A) 0.75%	B) 7.5%	C) 0.075%	D) 75%
Answer: D			
110) Dramarta :			
119) Property is assessed a A) 0.15%	B) 15%	C) 1.5%	D) 150%
Answer: B)	-)	,
vert to percent notation. 120) 0.53			
A) 5.3%	B) 53%	C) 0.053%	D) 530%
Answer: B			
121) 0.1			
A) 0.01%	B) 100%	C) 10%	D) 0.1%
Answer: C			
122) 0.576			
A) 576%	B) 0.576%	C) 0.0576%	D) 57.6%
Answer: D			
123) 0.057			
A) 5.7%	B) 57%	C) 0.0057%	D) 0.057
Answer: A			
124) 1.5			
A) 0.15%	B) 0.0015%	C) 150%	D) 15%
Answer: C		·	,
125) 0.0032			
,	B) 0.32%	C) 0.16%	D) 0.000
A) 0.032%	D) 0.52 /0	$C_{0.10/0}$	DJ 0.000

126) 7 A) 350%	B) 0.7%	C) 0.07%	D) 700%
Answer: D			
127) 87.415	-		
A) 8741.5% Answer: A	B) 87.415%	C) 0.87415%	D) 8.7415%
128) 5.704 A) 5.704%	B) 0.05704%	C) 570.4%	D) 0.5704%
Answer: C	D) 0.0370478	C) 57 0.4 /8	D) 0.370478
35			
129) <u>35</u> 100			
A) 350%	B) 3.5%	C) 35%	D) 0.35%
Answer: C			
130) <u>-</u>			
10			
A) 30%	B) 3%	C) 300%	D) 0.3%
Answer: A			
131) ¹			
4			
A) 0.25%	B) 250%	C) 25%	D) 2.5%
Answer: C			
132) <u> </u>			
20	B) 0.050/	$\sim 10^{-10}$	
A) 50%	B) 0.05%	C) 0.5%	D) 5%
Answer: D			
133) ²			
50	D) 40/	C > 0.049/	D) 40%
A) 0.4% Answer: B	B) 4%	C) 0.04%	D) 40%
Anower. D			
Solve.			
134) What is 10% of 600 A) 600	B) 0.6	C) 6	D) 60
Answer: D	,	,	,
135) What is 5% of 400			
A) 0.2	B) 20	C) 2	D) 200
Answer: B			
136) What is 33% of 1467			
A) 48.41	B) 484.11	C) 48,411	D) 4841.1
Answer: B			

137) What is 82% of 459 A) 37.64 Answer: B	B) 376.38	C) 37,638	D) 3763.8
138) What number is 8.4% of 29 A) 244 Answer: D	B) 0.24	C) 24.4	D) 2.44
139) What number is 6000% of 225 A) 13,500 Answer: A	B) 1350	C) 1,350,000	D) 135,000
140) What number is 190% of 324 A) 615.6 Answer: A	B) 61.56	C) 6156	D) 61,560
141) 50 is 90% of what number? A) 45 Answer: C	B) 555.6	C) 55.56	D) 5.56
142) 22 is 7% of what number? A) 3142.9	B) 314.29	C) 154	D) 31.43
Answer: B 143) 49% of what number is 74? A) 0.66	B) 151.02	C) 66	D) 1510.2
Answer: B 144) 40% of what number is 68? A) 170	B) 27.2	C) 17	D) 1700
Answer: A 145) 128 is 35% of what number? A) 0.27	B) 365.71	C) 27	D) 3657.1
Answer: B 146) 43 is 0.75% of what number? A) 57,333.3	B) 5733.33	C) 174	D) 1.74
Answer: B 147) 564 is 13.3% of what number? A) 42,406	B) 0.18	C) 4240.6	D) 18
Answer: C 148) 53 is 128% of what number? A) 41.41	B) 16,384	C) 163.84	D) 414.1
Answer: A			

149) 983 is what percent of 1844? A) 0.1% Answer: D	B) 187.6%	C) 0.5%	D) 53.3%
150) 964 is what percent of 707? A) 136.4% Answer: A	B) 73.3%	C) 0.1%	D) 1.4%
151) 3.2 is what percent of 21.4? A) 6.7% Answer: C	B) 0.1%	C) 15.0%	D) 668.8%
152) What percent of 2651 is 16? A) 6.0% Answer: D	B) 16.0%	C) 16,568.8%	D) 0.6%
153) What percent of 9 is 0.04? A) 225.0% Answer: C	B) 4.4%	C) 0.4%	D) 44.4%
154) What percent of 178 is 10.7? A) 0.1% Answer: B	B) 6.0%	C) 1663.6%	D) 0.2%
155) What percent of 51 is 554? A) 0.1% Answer: B	B) 1086.3%	C) 0.9%	D) 108.6%
156) 51.6 is what percent of 6? A) 860.0% Answer: A	B) 1.2%	C) 8600.0%	D) 11.6%
157) What percent of 21 is 21? A) 1% Answer: D	B) 0%	C) 200%	D) 100%
158) What percent of 82 is 41? A) 50% Answer: A	B) 0%	C) 200%	D) 2%
159) The parking lot at a grocery s A) 170 cars Answer: C	tore has 68 cars in it. 25% of t B) 27 cars	he cars are blue. How many o C) 17 cars	cars are blue? D) 272 cars
160) During one year, the Larson's high school district. What per places.)	cent did the Larsons pay to th	e high school district? (Round	d answer to two decimal
A) 20.05% Answer: B	B) 20.29%	C) 3561.50%	D) 79.71%

161)) During one year, the Green's that amount. How much mo		2	re department received 30% of
	A) \$24.36	B) \$84.40	C) \$70.00	D) \$104.40
	Answer: D			
162)	highway department. What decimal places.)	percent did the county h	nighway department receiv	Of this amount, \$59 went to the ve? (Round answer to two
	A) 19.30%	B) 23.02%	C) 23.41%	D) 76.59%
	Answer: C			
163)) During one year, the Schmid went to the library fund. Ho			rvices. Of this amount, 25%
	A) \$40.80	B) \$90.81	C) \$68.00	D) \$48.00
	Answer: C			
164)) To finance her community co Marguerite decides to pay o	8		2
	A) \$1890	B) \$189	C) \$18.90	D) \$209
	Answer: B			
165)) A tax-exempt school group r sales tax of 7%. How much s	should the school group	pay?	-
	A) \$167.30	B) \$34.14	C) \$239.00	D) \$16.73
	Answer: C			
	e problem.) If Gloria received a 9 percent Round to the nearest dollar	-	g \$21,800 a year, what was h	ner salary before the raise?
	A) \$21,000	B) \$20,000	C) \$19,838	D) \$19,800
	Answer: B			
167)) Stevie bought a stereo for \$2. the stereo? Round to the nea		s store at a 65% markup rate	e. What was the retail price of
	A) \$510.00	B) \$420.75	C) \$355.00	D) \$320.75
	Answer: B			
168)) On Monday, an investor bou much did the investor pay fo nearest dollar if necessary.			
	A) \$1300	B) \$1294	C) \$1350	D) \$1341
	Answer: A			
169)) At the end of the day, a store tax of 5%. Find the amount t			the sale of goods and the sales ry.
	A) \$61	B) \$74	C) \$70	D) \$75
	Answer: C			

(1) = 52,017 comises			
A) 53,917 copies	B) 77,640 copies	C) 51,760 copies	D) 35,944 copies
Answer: A			
	int of 9.5% on its bulk order of t he order before the discount? F B) \$5242		
Answer: D	<i>b)</i>	C) 400 12	2) 00 100
172) After spending \$2650 fc	or tables and \$2050 for chairs, a	convention center manager fi	nds that 35% of his orig
	he amount that remains. Round	8	8
A) \$3154	B) \$2531	C) \$7231	D) \$1645
Answer: B			
-	ects 6% sales tax on all sales. If e nearest cent if necessary.	total sales including tax are \$	1205.68, find the portion
A) \$72.34	B) \$58.25	C) \$68.25	D) \$1137.43
Answer: C	,	,	
	0 people voted. This was an inc n? Round to the nearest whole B) 47,824 people		ction. How many peopl D) 38,125 people
Answer: D	2) 11/021 people	0)01)010 people	2) 00)1 <u>2</u> 0 poopte
voted in the last electio	0 people voted. This was a decr n? Round to the nearest whole	person if necessary.	
A) 23,023 people	B) 23,211 people	C) 27,802 people	D) 27,577 people
A) 23,023 people Answer: C	B) 23,211 people	C) 27,802 people	D) 27,577 people
Answer: C e using the five-step proble	m-solving process.		D) 27,577 people
Answer: C e using the five-step proble 176) The sum of two consect	m-solving process. utive even integers is 62. Find t	the larger number.	
Answer: C e using the five-step proble 176) The sum of two consect A) 26	m-solving process.	the larger number.	D) 27,577 people D) 40
Answer: C e using the five-step proble 176) The sum of two consect	m-solving process. utive even integers is 62. Find t	the larger number.	
Answer: C e using the five-step proble 176) The sum of two consect A) 26 Answer: C 177) The sum of the page nu	m-solving process. utive even integers is 62. Find t B) 28 mbers on the facing pages of a	the larger number. C) 32 book is 263. Find the larger pa	D) 40 age number.
Answer: C e using the five-step proble 176) The sum of two consect A) 26 Answer: C 177) The sum of the page nu A) 130	m-solving process. utive even integers is 62. Find t B) 28	the larger number. C) 32	D) 40
Answer: C e using the five-step proble 176) The sum of two consect A) 26 Answer: C 177) The sum of the page nu	m-solving process. utive even integers is 62. Find t B) 28 mbers on the facing pages of a	the larger number. C) 32 book is 263. Find the larger pa	D) 40 age number.
Answer: C e using the five-step proble 176) The sum of two consect A) 26 Answer: C 177) The sum of the page nu A) 130 Answer: C	m-solving process. utive even integers is 62. Find t B) 28 mbers on the facing pages of a B) 127	the larger number. C) 32 book is 263. Find the larger pa C) 132 e integer is three times as grea	D) 40 age number. D) 142
Answer: C e using the five-step proble 176) The sum of two consect A) 26 Answer: C 177) The sum of the page nu A) 130 Answer: C 178) The difference between	m-solving process. utive even integers is 62. Find t B) 28 mbers on the facing pages of a B) 127	the larger number. C) 32 book is 263. Find the larger pa C) 132	D) 40 age number. D) 142
Answer: C e using the five-step proble 176) The sum of two consect A) 26 Answer: C 177) The sum of the page nu A) 130 Answer: C 178) The difference between integers.	m-solving process. utive even integers is 62. Find t B) 28 mbers on the facing pages of a B) 127	the larger number. C) 32 book is 263. Find the larger pa C) 132 e integer is three times as grea	D) 40 age number. D) 142 at as the other. Find the
Answer: C re using the five-step proble 176) The sum of two consect A) 26 Answer: C 177) The sum of the page nu A) 130 Answer: C 178) The difference between integers. A) 30 and 90 Answer: A	m-solving process. utive even integers is 62. Find t B) 28 mbers on the facing pages of a B) 127	the larger number. C) 32 book is 263. Find the larger pa C) 132 e integer is three times as grea C) 30 and 60	D) 40 age number. D) 142 at as the other. Find the D) 60 and 90

180)	The sum of twice a number an number. What is the number?		he same as the difference bet	ween -37 and the
	A) -10	B) -6	C) -4	D) -5
	Answer: D			
181)	The sum of two consecutive in A) -165	ntegers is -327. Find the large B) -162	er integer. C) -164	D) -163
	Answer: D			
182)	The sum of three consecutive A) 188, 190, 192	integers is 570. Find the integ B) 189, 190, 191	gers. C) 190, 191, 192	D) 188, 189, 190
	Answer: B			
183)	The sum of three consecutive A) 92, 94, 96	even integers is 270. Find the B) 83, 84, 85	e integers. C) 90, 92, 94	D) 88, 90, 92
	Answer: D			
184)	If three times the smaller of tw smaller integer.	o consecutive integers is add	ed to four times the larger, th	e result is 109. Find the
	A) 14	B) 16	C) 15	D) 45
	Answer: C			
185)	If the first and third of three co	_	lded, the result is 87 less than	five times the second
	integer. Find the third integer A) 27	B) 58	C) 31	D) 29
	Answer: C			
186)	The second angle of a triangle measure of the smallest angle.		-	nan the first. Find the
	A) 60°	B) 120°	C) 30°	D) 24°
	Answer: D			
187)	The second angle of a triangle other two angles. Find the me	-	-	han the sum of the
	A) 45°	B) 9°	C) $2\frac{1}{4}$	D) 36°
	Answer: D			
188)	Two angles of a triangle are 40 A) 150°)° and 110°. What is the meas B) 30°	sure of the third angle? C) -60°	D) 210°
	Answer: B			
189)	The complement of an angle m A) 151°	neasures 32° less than the an B) 61°	gle. Find the measure of the a C) 148°	ingle. D) 39°
	Answer: B			
190)	Two angles are supplementary the measure of each angle.	y. If one angle measures 78° le	ess than twice the measure of	its supplement, find
	A) 43°, 47°	B) 43°, 137°	C) 86°, 94°	D) 4°, 86°
	Answer: C			

191) Find the measures of the supplementary angles.

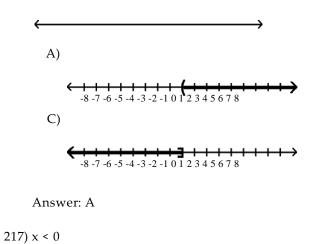
9z°7z°A) 202.5° and 157.5°B) 50.63° and 39.38°C) 101.25° and 78.75°Answer: CC)101.25° and 78.75°(P = 2L + 2W)A) 38 mB) 69 mC) 31 mAnswer: AC) 9 mC) 31 m(P3) A square plywood platform has a perimeter which is 6 times the length of a side, decrease length of a side.A) 1(P3) A square plywood platform has a perimeter which is 6 times the length of a side, decrease length of a side.A) 1(P3) A square plywood platform has a perimeter of 260 inches. The length of the carpet is 30 i width. What are the dimensions of the carpet?(A) 80 in., 110 in.B) 115 in., 145 in.C) 100 in., 130 in.Answer: DD(P5) A triangular lake-front lot has a perimeter of 2100 feet. One side is 100 feet longer than the third side is 500 feet longer than the shortest side. Find the lengths of all three sides.(A) 600 ft, 700 ft, 1100 ftB) 100 ft, 200 ft, 300 ft(C) 500 ft, 600 ft, 1000 ftD) 600 ft, 600 ft, 600 ft(P6) You are traveling to your aunt's house that is 225 miles away. If you are currently twice a are from your aunt's, how far have you traveled?(A) 112.5 milesB) 75 milesC) 150 miles(P7) Kevin invested money in a savings account at a rate of 5% simple interest. After one year, account. How much did Kevin originally invest?A) \$4888.00(P3) Stife.C) \$4660.00Answer: CD(P3) Kevin invested money in a savings account at a rate of 5% simple interest. After one year, account. How much did Kevin originally invest?(P3) Stife.C) \$4660.00Answer: CD(P3) Eri			lementary angles.	τ ind the measures of the supp
 A) 202.5° and 157.5° B) 50.63° and 39.38° C) 101.25° and 78.75° Answer: C P2) Find the length of a rectangular lot with a perimeter of 138 meters if the length is 7 meters: (P = 2L + 2W) A) 38 m B) 69 m C) 31 m Answer: A P3) A square plywood platform has a perimeter which is 6 times the length of a side, decrease length of a side. A) 1 B) 2 C) 9 Answer: D P4) A rectangular Persian carpet has a perimeter of 260 inches. The length of the carpet is 30 i width. What are the dimensions of the carpet? A) 80 in., 110 in. B) 115 in., 145 in. C) 100 in., 130 in. Answer: D P5) A triangular lake-front lot has a perimeter of 2100 feet. One side is 100 feet longer than th the third side is 500 feet longer than the shortest side. Find the lengths of all three sides. A) 600 ft, 700 ft, 1100 ft B) 100 ft, 200 ft, 300 ft C) 500 ft, 600 ft, 1000 ft D) 600 ft, 600 ft, 600 ft Answer: C P6) You are traveling to your aunt's house that is 225 miles away. If you are currently twice a are from your aunt's, how far have you traveled? A) 112.5 miles B) 75 miles C) 150 miles Answer: C P7) Kevin invested money in a savings account at a rate of 5% simple interest. After one year, account. How much did Kevin originally invest? A) \$488.00 B) \$5150.53 C) \$4660.00 Answer: C P8) Eric paid \$560.77, including 6% tax, for an LCD computer monitor. How much did the corcost? A) \$596.56 B) \$33.65 C) \$528.03 Answer: D P9) The houses on the north side of Perry Street are consecutive odd numbers. Tom and Voul 				9z° 7z°
Answer: C 22) Find the length of a rectangular lot with a perimeter of 138 meters if the length is 7 meters (P = 2L + 2W) A) 38 m B) 69 m C) 31 m Answer: A 23) A square plywood platform has a perimeter which is 6 times the length of a side, decrease length of a side. A) 1 B) 2 C) 9 Answer: D 24) A rectangular Persian carpet has a perimeter of 260 inches. The length of the carpet is 30 i width. What are the dimensions of the carpet? A) 80 in., 110 in. B) 115 in., 145 in. C) 100 in., 130 in. Answer: D 24) A triangular lake-front lot has a perimeter of 2100 feet. One side is 100 feet longer than th the third side is 500 feet longer than the shortest side. Find the lengths of all three sides. A) 600 ft, 700 ft, 1100 ft B) 100 ft, 200 ft, 300 ft 25) A triangular lake-front lot has a perimeter of 2100 feet. One side is 100 feet longer than th the third side is 500 feet longer than the shortest side. Find the lengths of all three sides. A) 600 ft, 600 ft, 1000 ft D) 600 ft, 600 ft, 600 ft 26) You are traveling to your aunt's house that is 225 miles away. If you are currently twice a are from your aunt's, how far have you traveled? A) 112.5 miles 27) Kevin invested money in a savings account at a rate of 5% simple interest. After one year, account. How much did Kevin originally invest? A) \$4888.00 28) Eric paid \$560.77, including 6% tax, for an LCD computer monitor. How much			,	
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(P = 2L + 2W) A) 38 m B) 69 m C) 31 m Answer: A 23) A square plywood platform has a perimeter which is 6 times the length of a side, decrease length of a side. A) 1 B) 2 C) 9 Answer: D 24) A rectangular Persian carpet has a perimeter of 260 inches. The length of the carpet is 30 i width. What are the dimensions of the carpet? A) 80 in., 110 in. B) 115 in., 145 in. C) 100 in., 130 in. Answer: D 24) A triangular lake-front lot has a perimeter of 2100 feet. One side is 100 feet longer than th the third side is 500 feet longer than the shortest side. Find the lengths of all three sides. A) 600 ft, 700 ft, 1100 ft B) 100 ft, 200 ft, 300 ft C) 500 ft, 600 ft, 1000 ft D) 600 ft, 600 ft, 600 ft Answer: C 26 26) You are traveling to your aunt's house that is 225 miles away. If you are currently twice a are from your aunt's, how far have you traveled? A) 112.5 miles B) 75 miles C) 150 miles Answer: C 27 27) Kevin invested money in a savings account at a rate of 5% simple interest. After one year, account. How much did Kevin originally invest? A) \$4888.00 B) \$5150.53 C) \$4660.00 Answer: C 28 28) Eric paid \$560.77, including 6% tax, for an LCD computer moni				Answer: C
A) 38 m B) 69 m C) 31 m Answer: A 23) A square plywood platform has a perimeter which is 6 times the length of a side, decrease length of a side. A) 1 B) 2 C) 9 Answer: D 24) A rectangular Persian carpet has a perimeter of 260 inches. The length of the carpet is 30 i width. What are the dimensions of the carpet? A) 80 in., 110 in. B) 115 in., 145 in. C) 100 in., 130 in. Answer: D Ariangular lake-front lot has a perimeter of 2100 feet. One side is 100 feet longer than th the third side is 500 feet longer than the shortest side. Find the lengths of all three sides. A) 600 ft, 700 ft, 1100 ft B) 100 ft, 200 ft, 300 ft 25) A triangular lake-front lot has a perimeter of 2100 feet. One side is 100 feet longer than the shortest side. Find the lengths of all three sides. A) 600 ft, 700 ft, 1100 ft B) 100 ft, 200 ft, 300 ft C) 500 ft, 600 ft, 1000 ft D) 600 ft, 600 ft, 600 ft Answer: C 26) You are traveling to your aunt's house that is 225 miles away. If you are currently twice a are from your aunt's, how far have you traveled? A) 112.5 miles B) 75 miles C) 150 miles Answer: C 27) Kevin invested money in a savings account at a rate of 5% simple interest. After one year, account. How much did Kevin originally invest? A) \$4888.00 B) \$515.53 C) \$4660.00 Answer: C 28) Eric paid \$560.7	s more than the width.	neters if the length is 7 meters n	lot with a perimeter of 138 1	8
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A) 1 B) 2 C) 9 Answer: D 94) A rectangular Persian carpet has a perimeter of 260 inches. The length of the carpet is 30 i width. What are the dimensions of the carpet? A) 80 in., 110 in. B) 115 in., 145 in. C) 100 in., 130 in. Answer: D 95) A triangular lake-front lot has a perimeter of 2100 feet. One side is 100 feet longer than th the third side is 500 feet longer than the shortest side. Find the lengths of all three sides. A) 600 ft, 700 ft, 1100 ft B) 100 ft, 200 ft, 300 ft 95) You are traveling to your aunt's house that is 225 miles away. If you are currently twice a are from your aunt's, how far have you traveled? A) 112.5 miles 96) You are traveling to your aunt's house that is 225 miles away. If you are currently twice a are from your aunt's, how far have you traveled? A) 112.5 miles 97) Kevin invested money in a savings account at a rate of 5% simple interest. After one year, account. How much did Kevin originally invest? A) \$4888.00 98) Eric paid \$560.77, including 6% tax, for an LCD computer monitor. How much did the corcost? A) \$596.56 99) The houses on the north side of Perry Street are consecutive odd numbers. Tom and Youl	ed by 14. Find the	s the length of a side, decreased	s a perimeter which is 6 time	
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 P5) A triangular lake-front lot has a perimeter of 2100 feet. One side is 100 feet longer than the the third side is 500 feet longer than the shortest side. Find the lengths of all three sides. A) 600 ft, 700 ft, 1100 ft B) 100 ft, 200 ft, 300 ft C) 500 ft, 600 ft, 1000 ft D) 600 ft, 600 ft, 600 ft do 0 ft do 0 ft, 600 ft do 0 ft d	D) 50 in., 80 in.	C) 100 in., 130 in.	B) 115 in., 145 in.	A) 80 in., 110 in.
 the third side is 500 feet longer than the shortest side. Find the lengths of all three sides. A) 600 ft, 700 ft, 1100 ft B) 100 ft, 200 ft, 300 ft C) 500 ft, 600 ft, 1000 ft D) 600 ft, 600 ft, 600 ft Answer: C 26) You are traveling to your aunt's house that is 225 miles away. If you are currently twice at are from your aunt's, how far have you traveled? A) 112.5 miles B) 75 miles C) 150 miles Answer: C 27) Kevin invested money in a savings account at a rate of 5% simple interest. After one year, account. How much did Kevin originally invest? A) \$4888.00 B) \$5150.53 C) \$4660.00 Answer: C 28) Eric paid \$560.77, including 6% tax, for an LCD computer monitor. How much did the corcost? A) \$596.56 B) \$33.65 C) \$528.03 Answer: D 29) The houses on the north side of Perry Street are consecutive odd numbers. Tom and Voul				Answer: D
 26) You are traveling to your aunt's house that is 225 miles away. If you are currently twice as are from your aunt's, how far have you traveled? A) 112.5 miles B) 75 miles C) 150 miles Answer: C 27) Kevin invested money in a savings account at a rate of 5% simple interest. After one year, account. How much did Kevin originally invest? A) \$4888.00 B) \$5150.53 C) \$4660.00 Answer: C 28) Eric paid \$560.77, including 6% tax, for an LCD computer monitor. How much did the concost? A) \$596.56 B) \$33.65 C) \$528.03 Answer: D 29) The houses on the north side of Perry Street are consecutive odd numbers. Tom and Voul 		the lengths of all three sides. B) 100 ft, 200 ft, 300 ft		he third side is 500 feet longer A) 600 ft, 700 ft, 1100 ft
 are from your aunt's, how far have you traveled? A) 112.5 miles B) 75 miles C) 150 miles Answer: C Kevin invested money in a savings account at a rate of 5% simple interest. After one year, account. How much did Kevin originally invest? A) \$4888.00 B) \$5150.53 C) \$4660.00 Answer: C Eric paid \$560.77, including 6% tax, for an LCD computer monitor. How much did the corcost? A) \$596.56 B) \$33.65 C) \$528.03 Answer: D The houses on the north side of Perry Street are consecutive odd numbers. Tom and Voul 				Answer: C
 Answer: C 97) Kevin invested money in a savings account at a rate of 5% simple interest. After one year, account. How much did Kevin originally invest? A) \$4888.00 B) \$5150.53 C) \$4660.00 Answer: C 98) Eric paid \$560.77, including 6% tax, for an LCD computer monitor. How much did the corcost? A) \$596.56 B) \$33.65 C) \$528.03 Answer: D 99) The houses on the north side of Perry Street are consecutive odd numbers. Tom and Voul 	-		nave you traveled?	re from your aunt's, how far
 (P7) Kevin invested money in a savings account at a rate of 5% simple interest. After one year, account. How much did Kevin originally invest? A) \$4888.00 B) \$5150.53 C) \$4660.00 Answer: C (P8) Eric paid \$560.77, including 6% tax, for an LCD computer monitor. How much did the concost? A) \$596.56 B) \$33.65 C) \$528.03 Answer: D (P9) The houses on the north side of Perry Street are consecutive odd numbers. Tom and Voul 	D) 37.5 miles	C) 150 miles	B) 75 miles	,
account. How much did Kevin originally invest? A) \$4888.00 B) \$5150.53 C) \$4660.00 Answer: C 28) Eric paid \$560.77, including 6% tax, for an LCD computer monitor. How much did the concost? A) \$596.56 B) \$33.65 C) \$528.03 Answer: D 29) The houses on the north side of Perry Street are consecutive odd numbers. Tom and Voul				Answer: C
Answer: C 28) Eric paid \$560.77, including 6% tax, for an LCD computer monitor. How much did the con- cost? A) \$596.56 B) \$33.65 C) \$528.03 Answer: D 29) The houses on the north side of Perry Street are consecutive odd numbers. Tom and Voul	, he has \$4893.00 in the	mple interest. After one year, h	-	
 P8) Eric paid \$560.77, including 6% tax, for an LCD computer monitor. How much did the concost? A) \$596.56 B) \$33.65 C) \$528.03 Answer: D P9) The houses on the north side of Perry Street are consecutive odd numbers. Tom and Voul 	D) \$51.51	C) \$4660.00	B) \$5150.53	A) \$4888.00
cost? A) \$596.56 B) \$33.65 C) \$528.03 Answer: D 29) The houses on the north side of Perry Street are consecutive odd numbers. Tom and Voul				Answer: C
Answer: D 99) The houses on the north side of Perry Street are consecutive odd numbers. Tom and Voul	mputer monitor itself	onitor. How much did the com	tax, for an LCD computer m	
9) The houses on the north side of Perry Street are consecutive odd numbers. Tom and Voul	D) \$529.03	C) \$528.03	B) \$33.65	A) \$596.56
				Answer: D
	la are next-door			
A) 286, 287 B) 284, 286 C) 285, 287	D) 284, 285			
Answer: B				Answer: B

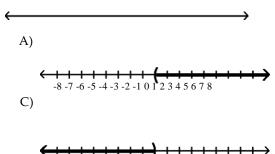
Insert the symbol $<, >, \ge$, or \le to matrix	ake the pair of inequ	ualities equivalent.	
200) $-8y \ge 16; y -2$	P) >	()	
A) < Answer: D	B) >	C) ≥	D) ≤
Allswel. D			
201) -9t ≤ -27; t 3			
A) >	B) ≤	C) ≥	D) <
Answer: C			
202) -3p > -27; p 9			
A) >	B) ≥	C) ≤	D) <
Answer: D			
203) -6z <24; z -4			
A) ≤	B) ≥	C) <	D) >
Answer: D			
Classify the pair of inequalities as	s "equivalent" or "no	t equivalent."	
204) $v \ge -7; -7 \le v$	1	1	
A) Not equivalent		B) Equivalent	
Answer: B			
205) w ≤ -3; -3 ≤ w			
A) Not equivalent		B) Equivalent	
Answer: A			
206) -3s - 8 < 1; -3s < 9			
A) Not equivalent		B) Equivalent	
Answer: B			
207) -8f + 7 > 6; -8f > 13			
A) Equivalent		B) Not equivalent	
Answer: B			
Determine whether the given nun	nber is a solution of	the inequality.	
208) x > -7, 14			
A) Yes		B) No	
Answer: A			
209) x > 10, -13.82			
A) No		B) Yes	
Answer: A			
210) x < 15, 14			
A) No		B) Yes	
Answer: B			
211) x > 4, 2.93			
A) Yes		B) No	
Answer: B			

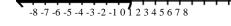
212) x ≥ 2, 2.4 A) No Answer: B		
213) x ≥ 2, -5 A) Yes Answer: B		
214) x ≤ 9, -13 A) No Answer: B		
215) x ≤ 4, 6.9 A) Yes		
Answer: B		

Graph on a number line.

216) x > 0





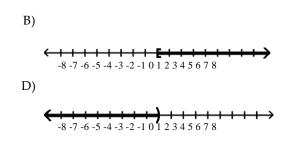


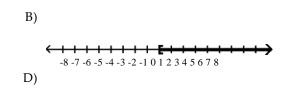
Answer: C

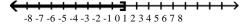
B) Yes

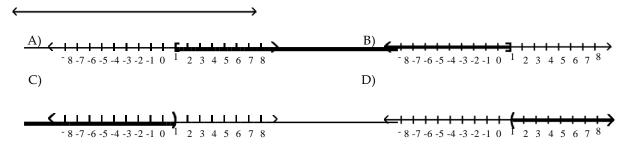
B) No B) Yes

B) No



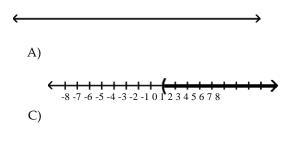


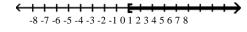




Answer: A

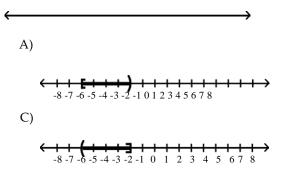
219) x ≤ 0





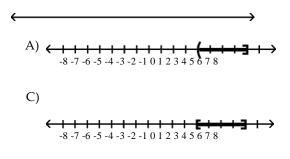
Answer: B

220) $-6 \le x \le -2$

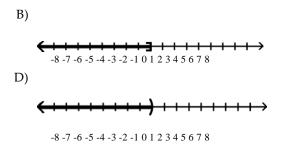


Answer: B

221) 3 < x < 7

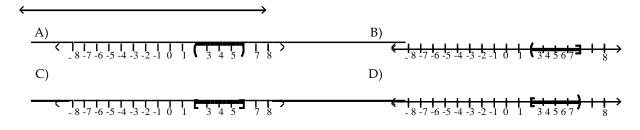






B)

B) $\leftarrow -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8$ D) $\leftarrow -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8$ $\leftarrow -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8$



Answer: D

Describe the graph using both set-builder notation and interval notation.

223)

224)

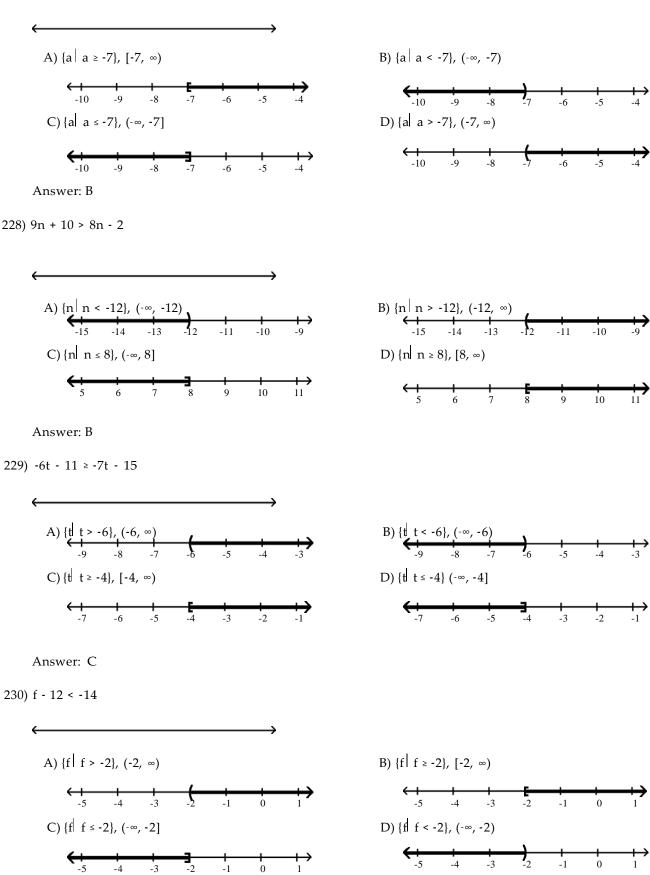
225)

$$\begin{array}{c|c} \hline & & & & & \\ \hline & & & & \\ \hline & & & \\ -7 & -6 & -5 & -4 & -3 & -2 & -1 & 0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ \hline & & & & \\ A) \{x | x \ge 4\}, [4, \infty) & B) \{x | x > 4\}, (4, \infty) & C) \{x | x \le 4\}, (-\infty, 4] & D) \{x | x < 4\}, (-\infty, 4) \\ \hline & & \\ Answer: C \end{array}$$

226)

$$\begin{array}{c|c} \bullet & \bullet & \bullet & \bullet \\ \hline & \bullet & \bullet & \bullet & \bullet \\ \hline & -7 & -5 & -4 & -3 & -2 & -1 & 0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ \hline & A) \{x | x \leq 4\}, (-\infty, 4] & B) \{x | x < 4\}, (-\infty, 4) & C) \{x | x > 4\}, (4, \infty) & D) \{x | x \geq 4\}, [4, \infty) \\ \hline & \text{Answer: B} \end{array}$$

Solve using the addition principle. Graph and write both set-builder notation and interval notation for the answer. 227) a + 8 < 1



10

+→ -1

-2

0

Answer: D

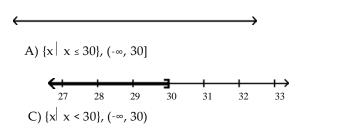
$$231) x + \frac{4}{21} + \frac{16}{21}$$

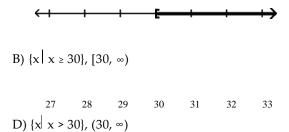
$$(A) \left\{ x | x > \frac{5}{7} \right\} \left\{ \frac{5}{7}, -9 \right\}$$

$$(A) \left\{ x | x > \frac{5}{7} \right\} \left\{ \frac{5}{7}, -9 \right\}$$

$$(A) \left\{ x | x > \frac{4}{7}, \frac{3}{7}, \frac{3}{7$$

Solve using the multiplication principle. Graph and write both set-builder notation and interval notation for the answer. $233)\frac{x}{6} \ge 5$



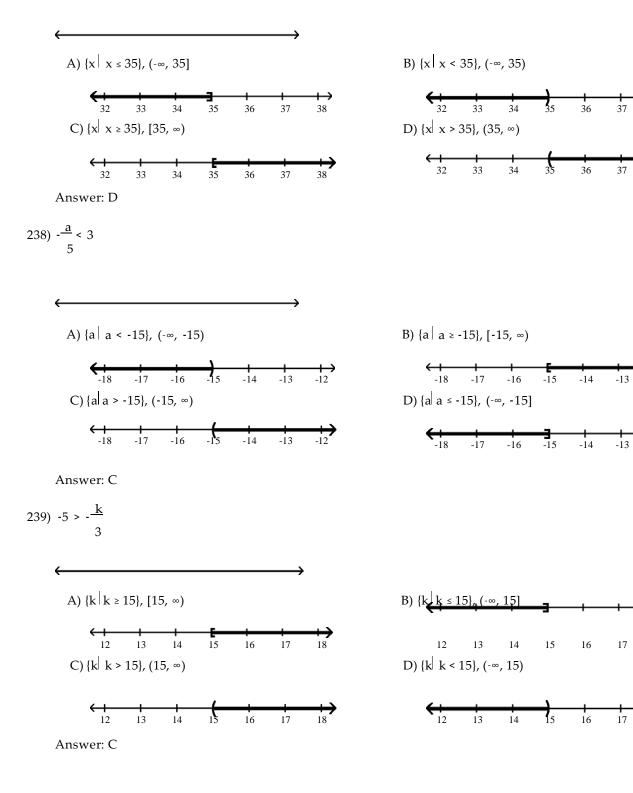




234)
$$\cdot 3 < \frac{k}{3}$$

A) $(k | k < 9), (\infty, -9)$
C) $(k | k > 9), (2, \infty)$
C) $(k | k > 9), (2, \infty)$
Answer: C
235) $\cdot 3 > \frac{b}{2}$
Answer: C
235) $\cdot 3 > \frac{b}{2}$
Answer: C
235) $\cdot 3 > \frac{b}{2}$
Answer: C
236) $10 > -\frac{k}{3}$
Answer: A
236) $10 > -\frac{k}{3}$
Answer: A
236) $10 > -\frac{k}{3}$
Answer: A
236) $10 > -\frac{k}{3}$
Answer: D

$$237)\frac{x}{7} > 5$$



+→ 38

38

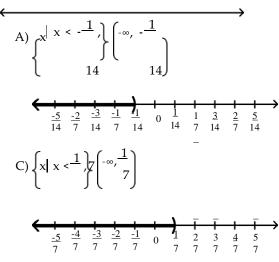
-12

-12

18

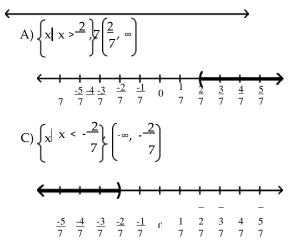
+→ 18

240)
$$-2x < -\frac{1}{7}$$



Answer: B

241) $-\frac{4}{7} > -2x$





Solve.

242) -8a + 4 > -9a - 5 A) {a | a < -9}, or (-∞, -9) C) {a | a < -1}, or (-∞, -1) Answer: B

243)
$$11y + 4 \le 10y + 13$$

A) {y y > 11}, or (11, ∞)
C) {y y < 11}, or (- ∞ , 11)
Answer: D

244) $-6z - 8 \ge -7z - 10$

B)
$$x \ x > \frac{1}{7}, \frac{1}{14}, \frac{1}{14}$$

$$\begin{cases} 1 \ 14 \end{cases}, \frac{1}{14}, \frac{1}{14}, \frac{1}{14}, \frac{1}{14}, \frac{1}{7}, \frac{1}{7},$$

B)
$$\{x \mid x < 0\}, \{\infty, 0\}$$

 $\left\{ \begin{array}{c} \frac{1}{5}, \frac{1}{7}, \frac{1$

B) {a | a > -9}, or (-9, ∞) D) {a | a > -1}, or (-1, ∞)

B) $\{y | y \ge 9\}$, or $[9, \infty)$ D) $\{y | y \le 9\}$, or $(-\infty, 9]$ A) $\{z \mid z \ge -2\}$, or $[-2, \infty)$ C) $\{z \mid z \le -6\}$, or $(-\infty, -6)$ Answer: A B) $\{z | z \le -2\}$, or $(-\infty, -2]$ D) $\{z | z > -6\}$, or $(-6, \infty)$

245) 7x + 3 ≥ 8x - 2 A) {x x ≥ -5}, or [-5, ∞) C) {x x ≤ 7}, or (-∞, 7] Answer: B		B) $\{x x \le 5\}$, or $(-\infty, 5]$ D) $\{x x > 7\}$, or $(7, \infty)$	
246) -3 - 3y + 4 ≥ -4y - 10 A) {y y ≥ -11}, or [-11, ∞) C) {y y < -3}, or (-∞, -3) Answer: A		B) $\{y y > -3\}$, or $(-3, \infty)$ D) $\{y y \le -11\}$, or $(-\infty, -11]$	
247) 0.6x + 10 + x > 2x + 15 - 0.5x A) {x x < -5}, or (-∞, -5) C) {x x > 50}, or (50, ∞) Answer: C		B) $\{x \mid x \ge -5\}$, or [-5, ∞) D) $\{x \mid x < 50\}$, or (- ∞ , 50)	
$248)\frac{x}{2} + 16 \le 10$			
A) $\{x \mid x \le 8\}$, or $(-\infty, 8]$ C) $\{x \mid x \ge -12\}$, or $[-12, \infty)$		B) $\{x \mid x \le -12\}$, or $(-\infty, -12]$ D) $\{x \mid x < -10\}$, or $(-\infty, -10)$	
Answer: B			
249) 2 + 2x < 44 A) {x x < 21}, or (-∞, 21) C) {x x > 21}, or (21, ∞) Answer: A		 B) {x x > 23}, or (23, ∞) D) {x x < 23}, or (-∞, 23) 	
250) 7 + 7y \ge 77 A) {y y \le 12}, or (- ∞ , 12] C) {y y \ge 12}, or [12, ∞) Answer: D		B) $\{y y \le 10\}$, or $(-\infty, 10]$ D) $\{y y \ge 10\}$, or $[10, \infty)$	
251) -9 < 9t + 3 - 8t A) {t t < 6}, or (-∞, 6) C) {t t > 12}, or (12, ∞) Answer: D		B) {t t < -6}, or (-∞, -6) D) {t t > -12}, or (-12, ∞)	
252) 9x + 12 > 3(2x + 1) A) {x x < -3}, or (-∞, -3) C) {x x > -3}, or (-3, ∞) Answer: C		B) $\{x \mid x \ge -3\}$, or $[-3, \infty)$ D) $\{x \mid x \le -3\}$, or $(-\infty, -3]$	
253) -4(6y + 2) < -28y - 16 A) {y y > -2}, or (-2, ∞) C) {y y < -2}, or (-∞, -2) Answer: C		B) $\{y y \ge -2\}$, or $[-2, \infty)$ D) $\{y y \le -2\}$, or $(-\infty, -2]$	
254) -18r - 24 ≤ -3(5r + 10) A) {r r ≤ 2}, or (-∞, 2] Answer: C	B) {r $r > 2$ }, or(2, ∞)	C) $\{1 \mid r \ge 2\}$, or $[2, \infty)$	D) $\{1 \mid r < 2\}$, or (- ∞ , 2)

$$256) \frac{2}{3} (2x - 1) < 2$$
A) {x | x ≤ 2}, or (-∞, 2]
C) {x | x ≥ - 2}, or [-2, ∞)

Answer: B

$$257)^{\frac{5}{6}} \begin{bmatrix} 5x & -\frac{2}{15} \end{bmatrix} -\frac{2}{5} \begin{bmatrix} -\frac{3}{5} \\ -\frac{3}{5} \end{bmatrix}$$

A) $\left\{ x \mid x \le \frac{4}{15} \right\}$, or $\left\{ -\frac{5}{5} \end{bmatrix}$
C) $\left\{ x \mid x < \frac{4}{15} \right\}$, or $\left\{ -\frac{5}{5} \end{bmatrix}$, or $\left\{ -\frac{5}{5} \end{bmatrix}$

Answer: C

258) x is more than y A) $x \ge y$ Answer: B 259) x is at most y A) $x > y$ B) $x \le y$ C) $y \ge x$ D) $x \le y$ D) $y \le x$ D) $y \le x$
Answer: B 259) x is at most y A) $x > y$ B) $x \le y$ C) $x < y$ D) $y \le x$ Answer: B 260) y is no more than x
259) x is at most y A) x > y B) x ≤ y C) x < y D) y ≤ x Answer: B 260) y is no more than x
A) $x > y$ B) $x \le y$ C) $x < y$ D) $y \le x$ Answer: B260) y is no more than x
Answer: B 260) y is no more than x
260) y is no more than x
A) $y \le x$ B) $y \le x$ C) $x \le y$ D) $x \le y$
Answer: A
261) y exceeds x
A) $x \le y$ B) $x > y$ C) $y \le x$ D) $y > x$
Answer: D
Translate the sentence to an algebraic inequality.
262) A number is greater than 4.
A) $x < 4$ B) $x \ge 4$ C) $x \ge 4$ D) $x \le 4$
Answer: C
263) A number is less than or equal to 8.
A) $x \ge 8$ B) $x > 8$ C) $x \le 8$ D) $x < 8$
Answer: C
264) John weighs at least 123 pounds.
A) $x > 123$ B) $x < 123$ C) $x \ge 123$ D) $x \le 123$
Answer: C

B) {x x < 2}, or
$$(-\infty, 2)$$

D) {x x < - 2}, or $(-\infty, -2)$

B) $\left\{ x \right\}$	$x \ge -\frac{4}{15}$, or	$\begin{bmatrix} -\frac{4}{2}, \infty \\ 15 \end{bmatrix}$
7	45	5 1'S

265) The score on a test was betwe			\mathbf{D}
	A) 62 < x < 79	B) x < 79	C) 79 < x < 62	D) x > 62
	Answer: A			
266) The cost is no more than \$479	.40.		
_000	A) x < 479.40	B) $x \le 479.40$	C) x ≥ 479.40	D) x > 479.40
	Answer: B	,	,	,
267) The number of people at a con	ncert is not to exceed 1555.		
	A) x ≥ 1555	B) x ≤ 1555	C) x < 1555	D) x > 1555
	Answer: B			
268) The height of a member of the	haskathall toom is at loost 7	8 inchas	
200	A) $x > 78$	B) x < 78	C) x ≥ 78	D) x ≤ 78
	Answer: C	b)x vo	0) X - 70	D) X - 70
	Allswei. C			
Use an ir	nequality and the five-step pro	ocess to solve the problem.		
) One side of a rectangle is 14 in	_	ches. What values of x will m	ake the perimeter at
	least 58?			-
	A) 0 < x ≤ 15	B) x ≥ 15	C) x ≤ 15	D) x < 15
	Answer: B			
270)	One side of a restancle is 8 in a	has and the other side is vine	haa What values of y will me	ke the norimeter at
270) One side of a rectangle is 8 inc most 24?	hes and the other side is x inc	mes. What values of x will ma	ike the permieter at
	A) $x \ge 4$	B) $0 < x \le 4$	C) x ≤ 4	D) x < 4
	Answer: B	,	/	,
271)) One side of a rectangle is 3 tim	ies the other, and the perimet	er is not to exceed 64. Find the	e possible values for x,
	the length of the shorter side.			
	A) $0 < x \le 8$	B) 0 < x ≤ 24	C) x ≤ 8	D) x ≥ 24
	Answer: A			
272) One side of a triangle is 3 cm s	horter than the base x. The o	ther side is 5 cm longer than t	he base What lengths
	of the base will allow the peri			ne base. What lengths
	A) $x \ge 12$	B) x > 9	C) x ≤ 17	D) 0 < x ≤ 12
	Answer: A	,	,	,
273) One side of a rectangle is 9 inc	hes and the other side is x inc	ches. Find the value of x if the	area must be at least
	144 square inches.		\sim 1(\mathbf{D}
	A) $x \ge 16$	B) x ≤ 16	C) x = 16	D) 0 < x ≤ 16
	Answer: A			
274) The area of a triangle must be	at most 52.5 square inches, th	e base is 15 inches, and the he	eight is x inches. Find
	the possible values for x.	1	,	0
	A) 0 < x ≤ 3.5	B) $0 < x \le 14$	C) x < 7	D) $0 < x \le 7$
	Answer: D			

- 275) The color guard is making new triangular flags that must have a base of 18 inches to fit on their flagpoles. What is the maximum length of the triangular flags, if they want to use a maximum of 198 in.² of cloth? B) 44 in. C) 24 in. A) 22 in. D) 11 in. Answer: A 276) A shopkeeper is making a triangular sign for his store front, but he must keep the sign under 20 ft² to adhere to zoning laws. If the base of the sign is 20 ft, what is the maximum height of the triangular sign? A) 0.500 ft B) 20 ft C) 1.00 ft D) 2.0 ft Answer: D 277) In order for a chemical reaction to take place, the Fahrenheit temperature of the reagents must be at least 163.93°F. Find the Celsius temperatures at which the reaction may occur. (F = $\frac{9}{5}$ C + 32) C) C ≤ 73.29° B) C < 327.07° A) C ≥ 327.07° D) C ≥73.29° Answer: D 278) In order for a chemical reaction to remain stable, its Celsius temperature must be no more than 141.85°C. Find the Fahrenheit temperatures at which the reaction will remain stable. (F = $\frac{9}{5}$ C + 32) B) F ≥ 287.33° C) F ≤ 61.03° A) F ≤ 287.33° D) F ≥ 61.03° Answer: A 279) The equation y = 0.005x - 0.40 can be used to determine the approximate profit, yin dollars, of producing x items. How many items must be produced so the profit will be at least \$4113? D) $x \ge 822,520$ A) 0 < x ≤ 822,679 B) $x \ge 822,680$ C) x ≤ 822,680 Answer: B 280) If the formula R = -0.037t + 50.1 can be used to predict the world record in the 400-meter dash t years after 1925, for what years will the world records be 47.5 seconds or less? A) 1995 or after B) 1971 or after C) 1997 or after D) 1996 or after Answer: D 281) If the formula P = 0.5643Y - 1092.57 can be used to predict the average price of a theater ticket after 1945, for what years will the average theater ticket price be at least 46 dollars? (Y is the actual year.) A) 2018 or after B) 2016 or after C) 2028 or after D) 2020 or after Answer: A 282) A salesperson has two job offers. Company A offers a weekly salary of \$210 plus commission of 6% of sales. Company B offers a weekly salary of \$420 plus commission of 3% of sales. What is the amount of sales above which Company A's offer is the better of the two? A) \$7100 B) \$7000 C) \$3500 D) \$14,000 Answer: B 283) Company A rents copiers for a monthly charge of \$240 plus 12 cents per copy. Company B rents copiers for a monthly charge of \$480 plus 6 cents per copy. What is the number of copies above which Company A's charges are the higher of the two? A) 8000 copies B) 4100 copies C) 2000 copies D) 4000 copies
 - Answer: D

Rate		ent for one week, how r	nany miles would you need to	e. Rate 2 is \$98 per day pl o drive to pay less by tak
Rate		· · · · · · · · · , · · ·	- ,	r r r r r r r r r r r r r r r r r r r
A)	more than 68,600 miles		B) more than 4900 m	iles
	more than 35,000 miles		D) more than 17,150	miles
Answ	ver: B			
	as gotten scores of 100 a age of 85 or greater?	nd 95 on his first two te	sts. What score must he get or	n his third test to keep an
A)	At least 93.3	B) At least 59	C) At least 60	D) At least 97.5
Answ	ver: C			
least	how many green marbl	es does it have?	green marbles, and the bag h	
	At least 18 green marble		B) At least 19 green	
	At least 27 green marble	es	D) At least 36 green n	narbles
Answ	ver: A			
receiv term	-	hat is the minimum nu	5% of the 1200 points possible mber of additional points he r C) 780 points	-
<i>A</i>)	521 points	D) III pointo	<i>c)</i> , oo pontes	D 101 points
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Answ 288) DG's just o	ver: D Plumbing and Heating	charges \$50 plus \$70 pe acy call. How long to th	r hour for emergency service. e nearest hour was the plumb C) 13 hours	Bill remembers being bi
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Provide an appropriate response.

290) True or false: The solution of the equation 7y - 6 = 7y + 3 is zero. Answer: False. It has no solution.

- 291) The solution for the equation 7(6s 4) = 42s 28 is given as 0. Is this correct? Explain. Answer: No. The solution is all real numbers. Explanations will vary.
- 292) Write the steps you would use to solve this equation: 7(x 1) + 4x = -4x. Answer: Answers will vary.

- 293) What value of K makes this equation equivalent to x = 3?
 4x 4 = K
 Answer: 8
- 294) What value of K makes this equation equivalent to x = 3? $\frac{9}{K+x} = 3$

Answer: 0

- 295) What value of K makes this equation equivalent to x = 2?
 4x + 15x 6 = K + 6
 Answer: 26
- 296) Find all values of s that make this statement true: 8(4s 7) = 32s 56.Answer: s can be any value, including 0.
- 297) Find all values of x that make this statement true: (x 3) 7 = (x 7) 3. Answer: x can be any value, including 0.

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

298) The following statement would be considered a step in solving an applied problem. True or false?
Solve the equation.
A) True
B) False
Answer: A

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

- 299) If x represents a positive integer, how would you express its negative? Answer: -x
- 300) If x represents a negative integer, how would you express its negative?Answer: -x
- 301) How would you express the product of two numbers, r and s? Answer: rs
- 302) Two angles are complementary. One of the angles is r. How do you express the other angle? Answer: 90 - r
- 303) Express three consecutive integers, all in terms of x, if x is the largest integer. Answer: x - 2, x - 1, x
- 304) Two angles, q and r, are complementary. The angles 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

305) One positive 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.

306) True or False? If x < 2 then -2x < -4. A) True Answer: B	B) False
307) True or False? If x > 3 then 10x > 30. A) True Answer: A	B) False

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) In solving the inequality $9x \le -18$, would you have to reverse the inequality symbol? Explain why. Answer: No. No dividing by a negative number is involved.

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

310) 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) -5 < x ≤ -11
C) -8 < x ≤ -7
D) -2 < x ≤ 6

Answer: B

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

311) If a < b, is it always true that $\frac{1}{2} > \frac{1}{2}$? Explain. a b

Answer: No. If a or b is zero, then the second statement is undefined. Both a and b must also have the same sign.

- 312) If b < 0, is it true that $b^2 > b$? Explain. Answer: Yes, since $b^2 \ge 0 > b$.
- 313) If a ≤ b, is it always true that a + 2 ≤ b + 2? Explain.Answer: Yes, since adding the same number to both sides does not change the inequality.
- 314) If a ≤ b, is it always true that -7a ≤ -7b? Explain.Answer: No, multiplying an inequality by a negative number reverses the inequality symbol.
- 315) If $a \le b$, is it always true that $a^2 \le b^2$? Explain. Answer: No, not if a is a negative number.