Elementary and Intermediate Algebra Graphs and Models 5th Edition Bittinger Test Bank

Full Download: http://testbanklive.com/download/elementary-and-intermediate-algebra-graphs-and-models-5th-edition-bittinger-te MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

t step would be used to solve the equation? 1) $8x = 80$	
A) Multiply both sides by 8.	B) Divide both sides by 8.
C) Subtract 8 from both sides.	D) Add 8 to both sides.
Answer: B	
2) $x + 2 = 5$	
A) Divide both sides by 2.	B) Multiply both sides by 2.
C) Add 2 to both sides.	D) Subtract 2 from both sides
Answer: D	
3) $\frac{1}{9}x = 72$	
A) Multiply both sides by 9.	B) Subtract 9 from both sides
C) Add 9 to both sides.	D) Divide both sides by 9.
Answer: A	
4) x - 10 = 13	
A) Subtract 10 from both sides.	B) Add 10 to both sides.
C) Divide both sides by 10.	D) Multiply both sides by 10.
Answer: B	
de if the given number is a solution to the given equation. $\sum_{i=1}^{n} 2i = 12$	
5) 3x = 12; 8 A) No	B) Yes
Answer: A	b) 103
mibwei. A	
6) $\frac{x}{6} = 9;54$	
A) No	B) Yes
Answer: B	
7) p + 11 = 12; 1	
A) Yes	B) No
Answer: A	
8) $p - 3 = 1; 4$	
A) No	B) Yes
Answer: B	
9) $4m + 9 = 31; 5$	
A) Yes	B) No
Answer: B	
10) $9p + 5p - 7 = 21; 2$	
A) Yes	B) No
Answer: A	

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Solve using the addition principle.			
11) s - 6 = 1 A) 7	B) –7	C) 5	D) –5
Answer: A			
12) a + 5 = 9			
A) 4	B) 14	C) -14	D) -4
Answer: A			
13) $z - \frac{5}{46} = 0$			
A) $-\frac{5}{46}$	B) $\frac{46}{5}$	C) $-\frac{46}{5}$	D) $\frac{5}{46}$
Answer: D			
14) 7 = s + 4			
A) 11	B) 3	C) –11	D) –3
Answer: B			
15) $24 = z - 27$	D) - 1		
A) -3	B) -51	C) 3	D) 51
Answer: D			
16) $x - 8.44 = 0$	D) 0 44	C) 7 44	
A) 7.44 Answer: B	B) 8.44	C) -7.44	D) -8.44
17) z – 2 = 15 A) 17	B) 13	C) –17	D) –13
Answer: A	2) 10	0) 1	2) 10
10) 145 - 240			
18) -14.5 - s = 24.0 A) -38.5	B) -9.5	C) 9.5	D) 38.5
18) -14.5 - s = 24.0 A) -38.5 Answer: A	B) –9.5	C) 9.5	D) 38.5
A) –38.5 Answer: A	B) -9.5	C) 9.5	D) 38.5
A) -38.5 Answer: A 19) x + $\frac{5}{11} = \frac{10}{11}$			
A) –38.5 Answer: A	B) -9.5 B) <u>5</u> 22	C) 9.5 C) <u>15</u>	D) 38.5 D) <u>5</u> 11
A) -38.5 Answer: A 19) x + $\frac{5}{11} = \frac{10}{11}$			
A) -38.5 Answer: A 19) x + $\frac{5}{11} = \frac{10}{11}$ A) - $\frac{5}{11}$ Answer: D			
A) -38.5 Answer: A 19) x + $\frac{5}{11} = \frac{10}{11}$ A) - $\frac{5}{11}$			
A) -38.5 Answer: A 19) x + $\frac{5}{11} = \frac{10}{11}$ A) - $\frac{5}{11}$ Answer: D			

Solve using the multiplication principle.

	ising the manipheation principio			
-	21) $\frac{x}{5} = -9$			
	A) –5	B) -4	C) –2	D) -45
	Answer: D			
,	22) $-2 = \frac{a}{7}$			
	A) 5	B) - 1	C) 4	D) –14
	Answer: D			
	$(23)\frac{n}{5} = 3$			
	A) 15	B) 0	C) 7	D) 8
	Answer: A			
-	24) - 4a = 28			-
	A) 1 Answer: B	B) -7	C) 32	D) -32
-	(25) -49 = 7k A) 1	B) 56	C) -56	D) –7
	Answer: D	b) 50	C) -50	D) =/
,	26) -31.0 = -6.2c			
4	A) 24.8	B) 2.0	C) -24.8	D) 5.0
	Answer: D			
	27) $-8x = -24$			
	A) -16	B) 2	C) 16	D) 3
	Answer: D			
-	28) 6b = -90 A) -96	B) 96	C) –15	D) 1
	Answer: C	0))0	C) = 15	D) 1
-	29) $\frac{3}{4}x = 18$			
	A) $\frac{69}{4}$	B) $\frac{27}{2}$	C) $\frac{75}{4}$	D) 24
	Answer: D			
	-9x 3			
	$30) \frac{-9x}{8} = -\frac{3}{4}$			_
	A) $\frac{27}{32}$	B) $\frac{3}{2}$	C) $\frac{3}{8}$	D) $\frac{2}{3}$
	Answer: D			

$\begin{array}{ccc} 32) -852.334 = -541.755 + x \\ A) -1394.089 \\ \end{array} B) \ 1.573 \\ C) \ -310.579 \\ D) \ 0.636 \\ \end{array}$	<u>></u>
Answer: C	<u>}</u>
33) 280.623x = -922.119 A) -0.304 Answer: C	
$34) \frac{x}{735.076} = -115.443$ A) 619.633 B) -0.157 C) -84,859.379 D) -6.367 Answer: C	
Choose the word or statement that answers the question.35) What word means to find all of the solutions of an equation?A) SolveB) EliminateC) SolutionD) Equivaler	nt
Answer: A	
 36) What does the equation a = b mean? A) a and b stand for the same number in certain circumstances. B) a and b stand for the same number. C) a and b sometimes stand for the same number. D) a and b never stand for the same number. Answer: B 37) When you use the addition principle to solve an equation, what is true? A) You add and subtract the same number to both sides of the equation. B) You add the same number to both sides of the equation. C) You add the same number to both sides of the equation. 	
D) You subtract the same number from both sides of the equation.	
Answer: B	
38) What is the principle used to solve $\frac{7}{2}x = -4$?	
A) Opposite principle B) Multiplication principle	
C) Addition principle D) Solution principle Answer: B	
39) What is the principle used to solve $\frac{9}{2} + x = -6$?	
A) Multiplication principle B) Multiplicative inverse principle	
C) Additive identity principle D) Addition principle Answer: D	

Select the equivalent equation that could be the next step in finding a solution to the equation. 40) 3x + 8 = 6

40) $3x + 8 = 6$		_	
A) 3x = 14	B) $x = \frac{14}{3}$	C) $x = -\frac{2}{3}$	D) 3x = -2
Answer: D			
41) $5x = 9$	2	_	_
A) $x = -\frac{9}{5}$	B) $x = \frac{9}{5}$	C) $x = -\frac{5}{9}$	D) $x = \frac{5}{9}$
Answer: B			
42) $6(x-2) = 6$			
A) 6x – 12 = 6 Answer: A	B) $6x - 2 = 6$	C) $6(x-2) - 6 = 0$	D) $6(x - 2) + 6 = 0$
43) $2x = 8 + 8x$			
$A)\frac{2}{8}x = 8$	B) 10x = 8	C) $2x - 8x = 8$	D) $\frac{2x}{8x} = 8$
8 Answer: C			8X
Solve the equation.			
44) $6r + 8 = 20$			
A) 2	B) 4	C) 10	D) 6
Answer: A			
45) 4n - 6 = 30			
A) 9	B) 13	C) 36	D) 32
Answer: A			
46) $29 = 8x - 3$			-
A) 28	B) 24	C) 6	D) 4
Answer: D			
47) $43 = 8x + 3$	D) 27	\bigcirc 2	
A) 5	B) 36	C) 2	D) 32
Answer: A			
48) 160 = 13x + 17			
A) 4	B) 11	C) 134	D) 130
Answer: B			
49) 154 = 11x + 11x			1
A) 176	B) 132	C) 7	D) $\frac{1}{7}$
Answer: C			

Answer: C

50) $18x - 10x = 16$ A) $\frac{1}{2}$	B) 8	C) 2	D) 24
Answer: C	2) 0	<i>c)</i> -	_)
Solve the equation. If it is an ide 51) $-8y - 9 = 1 + 8y$	ntity or a contradiction,	then state this.	
$A) - \frac{5}{8}$		B) $\frac{8}{5}$	
C) $-\frac{8}{5}$		D) No solution; co	ontradiction
Answer: A			
52) $-7w - 7 = 3 - 3w$			
A) $\frac{2}{5}$	B) $-\frac{5}{2}$	C) $\frac{5}{2}$	D) $-\frac{2}{5}$
Answer: B			
53) -9b + 5 + 7b = -3b + 10			
A) –5		B) 5	
C) 10		D) No solution; co	ntradiction
Answer: B			
54) -3y + 7 = -2 + 10y			
A) $-\frac{13}{9}$	B) $\frac{7}{5}$	C) $\frac{9}{13}$	D) $\frac{13}{9}$
Answer: C			

55) $9r + 8 = -10 - 2r$ A) $\frac{11}{18}$	B) - <u>11</u> <u>18</u>	C) $-\frac{7}{2}$
Answer: D		
56) $-5p + 8 = -2 - 10p + 7p$		B) 1

A)
$$\frac{1}{5}$$
 B) $-\frac{1}{5}$

 C) 5
 D) All real numbers; identity

 Answer: C
 57) $3y - 8 + y = -5 + 4y - 3y$

 A) - 13
 B) 1

 C) $-\frac{13}{2}$
 D) $-\frac{13}{3}$

D) - <u>18</u> <u>11</u>

Answer: B

58) $3x + 3 + 2x = 6x + 3 - x$			
A) 0		B) 5	
C) $\frac{1}{5}$		D) All real numbers; identi	ty
Answer: D			
59) $4x + 3 + 3x = 8x + 2 - x$			
A) 0		B) 7	
C) $\frac{1}{7}$		D) No solution; contradiction	on
Answer: D			
Solve the equation. $60) \frac{f}{3} - 3 = 1$			
A) 4 Answer: C	B) -4	C) 12	D) -12
$61)\frac{2x}{5} - \frac{x}{3} = 5$			
A) 75 Answer: A	B) -150	C) 150	D) -75
62) $\frac{p}{3} - \frac{3p}{8} = 5$			
A) 120 Answer: B	B) -120	C) -115	D) 115
$63) \frac{a}{2} - \frac{1}{2} = -4$			
A) 9 Answer: D	B) -9	C) 7	D) -7
64) -9.8q = -34 - 1.3q A) 3.6 Answer: B	B) 4	C) 3.5	D) -42
65) -3.2q + 1.9 = -11.4 - 1.3q A) 4.2	B) –15	C) 7	D) 4.6
Answer: C			
66) -9.2 = y + 4.3 A) -4.9	B) -13.5	C) 13.5	D) 4.9
Answer: B			

67) –4.8 = z – 6 A) –1.2 Answer: D	B) 10.8	C) -10.8	D) 1.2
68) $\frac{15}{14}x + \frac{1}{14}x = 5x + \frac{1}{7} + \frac{13}{14}x$ A) $\frac{1}{67}$ Answer: C	B) - <u>1</u> 67	C) - <u>2</u> 67	D) $\frac{2}{73}$
69) $\frac{5}{6} + \frac{1}{7}x = 2$ A) $\frac{49}{6}$ Answer: A	B) $-\frac{7}{2}$	C) $\frac{35}{6}$	D) - <u>18</u> 7
70) 5(2z - 2) = 9(z + 2) A) 28 Answer: A	B) 8	C) -8	D) 13
71) -9x + 2(-3x - 4) = -16 - 7x A) 3 Answer: D	B) – 1	C) <u>12</u> <u>11</u>	D) 1
72) 35(x - 140) = 70 A) 70 Answer: B	B) 142	C) 140	D) 138
73) 7x - $(4x - 1) = 2$ A) $\frac{1}{11}$ Answer: B	B) $\frac{1}{3}$	C) - <u>1</u>	D) $-\frac{1}{3}$
74) $4(7x - 1) = 16$ A) $\frac{15}{28}$ Answer: B	B) ⁵ / ₇	C) $\frac{3}{7}$	D) $\frac{17}{28}$
75) $(y - 7) - (y + 6) = 9y$ A) $-\frac{13}{7}$	B) $-\frac{13}{5}$	C) $-\frac{1}{3}$	D) $-\frac{13}{9}$

$76)\frac{1}{2}(8x-10)=\frac{1}{4}(20x-16)$			
A) –1	B) $\frac{1}{20}$	C) –20	D) 1
Answer: A			
77) $(y - 7) - (y + 4) = 4y$ A) $-\frac{3}{2}$ Answer: C	B) $-\frac{3}{4}$	C) $-\frac{11}{4}$	D) $-\frac{11}{2}$
78) $\frac{2}{3}(10x - \frac{1}{6}) - \frac{3}{4} = \frac{1}{4}$ A) $\frac{1}{30}$ Answer: C	B) $\frac{7}{40}$	C) $\frac{1}{6}$	D) $\frac{9}{80}$
79) $0.5(5x + 15) = 2.9 - (x + 3)$ A) $-\frac{3.002399752e+14}{2.814749767e+14}$ Answer: B	B) - 76 <u>35</u>	C) - $\frac{59}{13}$	D) - <u>3.002399752e+14</u> 6.567749457e+15

Solve the problem.

80) 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 23,430 credits. A) 23,445 full-time equivalent students B) 351,450 full-time equivalent students

D) 23,415 full-time equivalent students

- C) 1562 full-time equivalent students
- Answer: C
- 81) 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

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 25 cycles per second? Round to the nearest tenth of a meter per cycle.

A) 319.0 meters per cycle	B) 0.1 meters per cycle
C) 13.8 meters per cycle	D) 8600.0 meters per cycle
Answer: C	

82) The perimeter of a rectangle with length L and width W is given by the formula P = 2L + 2W. Find the perimeter of a rectangle with length 8 meters and width 2 meters.

A) 20 meters	B) 18 meters	C) 32 meters	D) 10 meters
Answer: A			

83) The volume of a sphere	e with radius r is given by the	e formula V = $\frac{4}{3}\pi r^3$. Find the	volume of a sphere with
radius 4 meters. Use 3. A) 803.85 m ³	14 for the value of π . B) 85.33 m ³	C) 267.95 m ³	D) 66.99 m ³
Answer: C		1	
		en by the formula $A = \frac{1}{2}$ bh. F	ind the area of a triangle with
base 11 meters and heig A) 77 m ²	gnt 7 meters. B) 38.5 m ²	C) 18.5 m ²	D) 18 m ²
Answer: B	b) 56.5 m ⁻	C) 18.5 III-	<i>D</i>) 18 m ²
85) The area of a circle with centimeters. Use 3.14 fo	h radius r is given by the form or π .	nula $A = \pi r^2$. Find the area of	a circle with radius 3

A) 9.42 cm ²	B) 29.58 cm ²	C) 6.14 cm ²	D) 28.26 cm ²
Answer: D			

86) When a ball is thrown upward at a speed of 21 m/s, its height s above the ground (in meters) after t seconds is given by the formula $s = 21t - 4.9t^2$. Find the height of the ball after 3 seconds.

A) 33.6 metersB) 58.1 metersC) 18.9 metersD) 48.3 metersAnswer: C

Solve the formula for the indicated letter.

87)
$$A = \frac{1}{2}bh$$
, for b
A) $b = \frac{Ah}{2}$
B) $b = \frac{A}{2h}$
C) $b = \frac{h}{2A}$
D) $b = \frac{2A}{h}$

Answer: D

88)
$$V = \frac{1}{3}Bh$$
 for h
A) $h = \frac{3B}{V}$ B) $h = \frac{V}{3B}$ C) $h = \frac{B}{3V}$ D) $h = \frac{3V}{B}$

Answer: D

89)
$$F = \frac{9}{5}C + 32$$
 for C
A) $C = \frac{5}{F - 32}$ B) $C = \frac{5}{9}(F - 32)$ C) $C = \frac{9}{5}(F - 32)$ D) $C = \frac{F - 32}{9}$

Answer: B

90) a + b = s + r for s

A)
$$s = \frac{a}{r} + b$$
 B) $s = a + b - r$ C) $s = \frac{a + b}{r}$ D) $s = r(a + b)$

Answer: B

91) $x = \frac{w + y + z}{4}$ for y A) $y = x - w - z - 4$ Answer: B	B) y = 4x - w - z	C) $y = 4x - 4w - 4z$	D) y = 4x + w + z
92) $P = s_1 + s_2 + s_3$ for s_3 A) $s_3 = P + s_1 + s_2$ Answer: B	B) s ₃ = P - s ₁ - s ₂	C) s ₃ = s ₁ + P - s ₂	D) s ₃ = s ₁ + s ₂ - P
93) $A = \frac{1}{2}h(b_1 + b_2)$ for b_1 A) $b_1 = \frac{2Ab_2 - h}{h}$ Answer: C	B) $b_1 = \frac{hb_2 - 2A}{h}$	C) $b_1 = \frac{2A - hb_2}{h}$	D) $b_1 = \frac{A - hb_2}{2h}$
94) d = rt for r A) r = dt Answer: D	B) $r = \frac{t}{d}$	C) r = d - t	D) $r = \frac{d}{t}$
95) P = 2L + 2W for L A) L = $\frac{P - 2W}{2}$ Answer: A	B) L = $\frac{P - W}{2}$	C) L = P - W	D) L = d - 2W
Answer: A 96) A = P(1 + nr) for r A) r = $\frac{P - A}{Pn}$ Answer: B	B) $r = \frac{A - P}{Pn}$	C) $r = \frac{Pn}{A - P}$	D) $r = \frac{A}{n}$
97) $\frac{1}{a} + \frac{1}{b} = c$ for b A) $b = \frac{1}{ac}$ Answer: B	B) b = $\frac{a}{ac - 1}$	C) b = ac $-\frac{1}{a}$	D) $b = \frac{1}{c} - a$
98) $\frac{1}{a} + \frac{1}{b} = \frac{1}{c}$ for c A) $c = \frac{a+b}{ab}$ Answer: B	B) $c = \frac{ab}{a+b}$	C) c = a + b	D) c = ab(a + b)
99) I = Prt for r (simple interest) P - I	P - 1		

A)
$$r = \frac{P - I}{1 + t}$$
 B) $r = \frac{P - 1}{It}$ C) $r = P - tI$ D) $r = \frac{I}{Pt}$

100) S = $4\pi r^2$, for r^2			
(surface area of a sphere with r	adius r)		
-	B) $r^2 = \frac{S}{\pi} - 4$	C) $r^2 = S - 4\pi$	D) $r^2 = \frac{S}{4\pi}$
Answer: D			
Choose the most appropriate translation	of the question.		
101) What percent of 42 is 73?			
A) n = (0.73)42	B) $n \cdot 73 = 42$	C) n = (0.42)73	D) $n \cdot 42 = 73$
Answer: D			
102) 57 is 94% of what number?			
A) p · 57 = 94	B) $p = 0.94 \cdot 57$	C) $p = 0.57p$	D) 57 = 0.94p
Answer: D			
103) 56 is what percent of 32?			
A) $q = 32 \cdot 0.56$	B) $q \cdot 32 = 56$	C) $q = 56 \cdot 0.32$	D) $q \cdot 56 = 32$
Answer: B			
104) What is 88% of 44?			
A) $t = 88 \cdot 44$	B) $t = 0.44 \cdot 88$	C) $0.88t = 44$	D) $t = 0.88 \cdot 44$
Answer: D			
105) 80% of what number is 90?			
A) $0.9 = 80y$	B) $80 = 0.9$ y	C) $90 = 0.8$ y	D) 0.8 = 90y
Answer: C			
Convert the percent notation in the sent 106) The amount of argon in the atm Source: http://www.nineplanet A) 0.16	nosphere of Mars is 1.6%.	C) 1.6	D) 0.0016
Answer: B	<i>D</i>) 0.010	C) 1.0	D) 0.0010
Answer: D			
107) Saturn's gravity is 92% of Earth			
Source: http://www.tqnyc.org/ A) 0.092	NYC040622/planets.html#Jup B) 0.92	viter_ C) 9.2	D) 92
Answer: B	b) 0.72	C) 7.2	0) 72
108) The unemployment rate was 5. A) 0.057	B) 0.0057	C) 0.57	D) 5.7
Answer: A			
109) People who work at home at le Source: Bureau of Labor Statist	-		yment.
A) 0.015	B) 1.5	C) 0.15	D) 15
Answer: C			

110) Dietary Guidelines of the 30 percent of calories.	e Food and Drug Administ	ration recommend that Americ	cans limit fat in their diets to
Source: http://www.pueł	olo.gsa.gov/cic_text/food/fo		
A) 0.03	B) 0.30	C) 30.0	D) 3.0
Answer: B			
Convert to decimal notation.			
111) 89%	D) 0 7 0	C 0	D) 0.00
A) 0.089	B) 0.78	C) 8.9	D) 0.89
Answer: D			
112) 20%			
A) 0.02	B) 0.09	C) 2	D) 0.2
Answer: D			
113) 71.2%			
A) 7.12	B) 0.0712	C) 0.712	D) 0.602
Answer: C			
114) 400%			
A) 4.01	B) 4	C) 40	D) 0.4
Answer: B			
115) 140%			
A) 0.14	B) 1.4	C) 14	D) 1.41
Answer: B			
116) 579%			
A) 57.9	B) 5.8	C) 5.79	D) 0.579
Answer: C			
117) 0.6%			
A) 0.6	B) 0.007	C) 0.06	D) 0.006
Answer: D			
118) 78.37%			
A) 7.837	B) 0.07837	C) 0.7837	D) 0.7737
Answer: C			
119) 0.69%			
A) 0.069	B) 0.69	C) 0.0069	D) 0.0079
Answer: C			
Convert the decimal notation in th 120) The amount of selenium	in an egg is 0.20 of the Dai	ly Value.	
A) 2.0%	.gov/factsheets/selenium.as B) 0.20%	sp С) 200%	D) 20%
Answer: D	5, 0.2070	C) 20070	2 / 20 /0

	water in wheat flour is 0.119 aid.gov/hum_response/crg/fsv B) 0.119%	6	D) 119%
Answer: C			
122) In 2005, women are 0.4	6 of all cases of lung cancer.		
Source: http://www.cancer.org a=	/docroot/CRI/content/CRI_2_2	2_1X_How_many_people_g	get_lung_cancer_26.asp?siteare
A) 460%	B) 46%	C) 4.6%	D) 0.46%
Answer: B			
	otitis media by the third birth dcd.nih.gov/health/hearing/oti B) 0.075%		of all children. D) 7.5%
Answer: A		, ,	
124) Property is assessed at A) 1.1%	0.11 of market value. B) 11%	C) 0.11%	D) 110%
Answer: B			
onvert to percent notation.			
125) 0.19 A) 1.9%	B) 190%	C) 19%	D) 0.019%
Answer: C	D) 190 %	C) 1976	D) 0.01976
126) 0.8			
A) 0.08%	B) 0.8%	C) 800%	D) 80%
Answer: D			
127) 0.995			
A) 0.0995%	B) 0.995%	C) 995%	D) 99.5%
Answer: D			
128) 0.446			
A) 446%	B) 0.0446%	C) 44.6%	D) 0.446%
Answer: C			
129) 7.7			
A) 770%	B) 77%	C) 0.0077%	D) 0.77%
Answer: A			
130) 0.00631			
A) 0.0631%	B) 0.000631%	C) 0.3155%	D) 0.631%
Answer: D			
131) 8			
A) 400%	B) 0.08%	C) 0.8%	D) 800%
Answer: D			

	l.946 A) 1494.6% nswer: A	B) 1.4946%	C) 14.946%	D) 0.14946%
	824 A) 0.8824% nswer: D	B) 8.824%	C) 0.08824%	D) 882.4%
	9 00 A) 690% nswer: D	B) 6.9%	C) 0.69%	D) 69%
	A) 500% nswer: B	B) 50%	C) 0.5%	D) 5%
	A) 500% nswer: C	B) 0.5%	C) 50%	D) 5%
) A) 0.5% nswer: D	B) 0.05%	C) 50%	D) 5%
	A) 6% nswer: A	B) 0.06%	C) 60%	D) 0.6%
,	That is 10% of 700? A) 70 nswer: A	B) 700	C) 7	D) 0.7
	That is 5% of 600? A) 3 nswer: D	B) 300	C) 0.3	D) 30
	That is 34% of 1892? A) 64.33 nswer: B	B) 643.28	C) 6432.8	D) 64,328
	That is 84% of 460? A) 386.4 nswer: A	B) 38,640	C) 3864	D) 38.64

143) What number is 8.7% of 19? A) 16.5 Answer: C	B) 165	C) 1.65	D) 0.17
144) What number is 7000% of 267 A) 1869 Answer: B	? B) 18,690	C) 1,869,000	D) 186,900
145) What number is 120% of 397? A) 4764 Answer: D	B) 47,640	C) 47.64	D) 476.4
146) 85 is 90% of what number? A) 94.44 Answer: A	B) 944.4	C) 76.5	D) 9.44
147) 16 is 9% of what number? A) 17.78 Answer: B	B) 177.78	C) 144	D) 1777.8
148) 47% of what number is 76? A) 161.7 Answer: A	B) 1617	C) 62	D) 0.62
149) 30% of what number is 91? A) 303.33 Answer: A	B) 27.3	C) 3033.3	D) 30.33
150) 127 is 47% of what number? A) 37 Answer: B	B) 270.21	C) 0.37	D) 2702.1
151) 17 is .84% of what number? A) 494 Answer: B	B) 2023.81	C) 4.94	D) 20,238.1
152) 567 is 12.4% of what number? A) 15 Answer: B	B) 4572.58	C) 45,725.8	D) 0.15
153) 52 is 133% of what number? A) 176.89 Answer: D	B) 391	C) 17,689	D) 39.1
154) 916 is what percent of 1869? A) 0.1% Answer: B	B) 49.0%	C) 0.5%	D) 204.0%

155) 960 is what percent of 710?A) 0.1%B) 135.2%C) 1.4%D) 74.0%				
Answer: B				
156) 4.0 is what percent of 23.3? A) 0.2% B) 17.2% C) 582.5% D) 5.8% Answer: B				
157) What percent of 2559 is 16? A) 16.3% B) 6.3% C) 0.6% D) 15,993.8%				
Answer: C				
158) What percent of 7 is 0.02?B) 0.3%C) 350.0%D) 28.6%				
Answer: B				
159) What percent of 187 is 11.2?A) 0.2%B) 0.1%C) 6.0%D) 1669.6%				
Answer: C				
160) What percent of 62 is 405? A) 0.2% B) 1.5% C) 65.3% D) 653.2%				
Answer: D				
161) 85.9 is what percent of 8? A) 0.9% B) 9.3% C) 1073.8% D) 10,738.0%				
Answer: C				
162) What percent of 38 is 38?				
A) 1% B) 0% C) 100% D) 200%				
Answer: C				
163) What percent of 120 is 60?C) 50%D) 2%				
Answer: C				
164) The parking lot at a grocery store has 50 cars in it. 30% of the cars are blue. How many cars are blue?A) 17 carsB) 167 carsC) 15 carsD) 150 cars				
Answer: C				
165) During one year, the Larson's real estate bill included \$556 for local schools. Of this amount, \$155 went to the high school district. What percent did the Larsons pay to the high school district? (Round answer to two decimal places.)				
A) 27.88% B) 27.70% C) 72.12% D) 15.50%				
Answer: A				
166) During one year, the Green's real estate bill included \$364 for city services. The fire department receive	d 56% of			
that amount. How much money went to the fire department? A) \$44.00 B) \$183.84 C) \$20.38 D) \$203.84				
Answer: D				

A) 73.94% B) 8.60% C) 25.76% D) 26.06% Answer: D 168) During one year, the Schmidt's real estate bill included 5244 for miscellaneous services. Ut this amount, 52% went to the library fund. How much money did the library receive? A) \$119.28 B) \$81.69 C) \$127.68 D) \$147.68 Answer: D 169) To finance her community college education, Marguerite takes out a Stafford loan for \$2700. After a year, Marguerite decides to pay off the interest, which is 9% of \$2700. How much will she pay? A) \$269 B) \$24.30 C) \$2430 D) \$243 Answer: D 170) A tax-exempt school group received a bill of \$176.55 for educational software. The bill incorrectly included sales tax of 7%. How much should the school group pay? A) \$23.57 B) \$165.00 C) \$115.50 D) \$11.55 Answer: B Pote the problem. T(1) I Gloria received a 12 percent raise and is now making \$25.760 a year, what was her salary before the raise? Round to the nearest dollar if necessary. A) \$23.000 B) \$22,669 C) \$24.000 D) \$23.760 Answer: B T(2) Stevie bought a stereo for \$220 and put it on sale at his store at a 50% markup rate. What was the retail price of the stereo? Round to the nearest cent if necessary.		8	l \$330 for county services. Of ghway department receive? (
 168) During one year, the Schmidt's real estate bill included \$284 for miscellaneous services. Of this amount, 52% went to the library fund. How much money did the library receive? A) \$119.28 B) \$81.69 C) \$127.68 D) \$147.68 Answer: D 169) To finance her community college education, Marguerite takes out a Stafford Ioan for \$2700. After a year, Marguerite decides to pay off the interest, which is 9% of \$2700. How much will she pay? A) \$269 B) \$24.30 C) \$2430 D) \$243 Answer: D 170) A tax-exempt school group received a bill of \$176.55 for educational software. The bill incorrectly included sales tax of 7%. How much should the school group pay? A) \$23.57 B) \$165.00 C) \$115.50 D) \$11.55 Answer: B 171) If Gloria received a 12 percent raise and is now making \$25.760 a year, what was her salary before the raise? Round to the nearest dollar if necessary. A) \$23.000 B) \$22.669 C) \$24,000 D) \$23,760 Answer: A 172) Stevie bought a stereo for \$220 and put it on sale at his store at a 50% markup rate. What was the retail price of the stereo? Round to the nearest cent if necessary. A) \$320.00 B) \$330.00 C) \$23.00 D) \$440.00 Answer: B 173) On Monday, an investor bought 100 shares of stock. On Tuesday, the value of the shares went up 3%. How much did the investor pay for the 100 shares if he sold them Wednesday morning for \$1442? Round to the nearest dollar if necessary. A) \$1400 B) \$1392 C) \$1450 D) \$1399 Answer: A 174) At the end of the day, a storekeeper had \$1470 in the cash register, counting both he sale of goods and the salt tax of 5%. Find the amount that is the tax. Round to the nearest dollar if necessary. <ul< th=""><th>decimal places.) A) 73.94%</th><th>B) 8.60%</th><th>C) 25.76%</th><th>D) 26.06%</th></ul<>	decimal places.) A) 73.94%	B) 8.60%	C) 25.76%	D) 26.06%
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 173) On Monday, an investor bought 100 shares of stock. On Tuesday, the value of the shares went up 3%. How much did the investor pay for the 100 shares if he sold them Wednesday morning for \$1442? Round to the nearest dollar if necessary. A) \$1400 B) \$1392 C) \$1450 D) \$1399 Answer: A 174) At the end of the day, a storekeeper had \$1470 in the cash register, counting both the sale of goods and the sale tax of 5%. Find the amount that is the tax. Round to the nearest dollar if necessary. A) \$70 B) \$74 C) \$61 D) \$75 Answer: A 175) Brand X copier advertises that its copiers run 13% longer between service calls than its competitor. If Brand X copiers run 52,700 copies between service calls, how many copies would the competitor run (to the nearest copy)? A) \$9,051 copies B) 28,182 copies C) 45,849 copies D) 46,637 copies 	A) \$320.00	B) \$330.00	C) \$230.00	D) \$440.00
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	175) Brand X copier advertises copiers run 52,700 copies copy)?	between service calls, how n	nany copies would the comp	etitor run (to the nearest
	Answer: D	-, _, _, ~ copico	-, -0,01, copies	_ , 10,007 copies

	What was the price of the ord	ler before the discount? Ro		necessary."
	A) \$6000 Answer: A	B) \$4284	C) \$5856	D) \$4538
177) After spending \$3750 for tabl budget remains. Find the am	ount that remains. Round t	o the nearest dollar if necess	sary.
	A) \$7067 Answer: B	B) \$1767	C) \$2067	D) \$1325
	Answer. D			
178)) Midtown Antiques collects 3 is the tax. Round to the neare	st cent if necessary.	-	-
	A) \$36.44 Answer: A	B) \$26.44	C) \$37.53	D) \$1214.65
179)) In a local election, 28,500 peo voted in the last election? Rot	-		tion. How many people
	A) 25,935 people	B) 31,319 people	C) 31,065 people	D) 26,147 people
	Answer: D			
180)) In a local election, 34,200 peo voted in the last election? Ro	und to the nearest whole pe	erson if necessary.	
	A) 37,278 people Answer: C	B) 31,122 people	C) 37,582 people	D) 31,376 people
	Allswel. C			
	ng the five-step problem-sol			
181) The sum of two consecutive e A) 58	even integers is 98. Find the B) 44	e larger number. C) 46	D) 50
	Answer: D	,	,	,
182) The sum of the page number	s on the facing pages of a b	ook is 325. Find the larger p	age number.
,	A) 158	B) 161	C) 163	D) 173
	Answer: C			
183) The difference between two p	positive integers is 36. One	integer is three times as grea	at as the other. Find the
	integers. A) 36 and 54	B) 18 and 36	C) 54 and 90	D) 18 and 54
	Answer: D			
184)) If -4 is added to a number an A) 18	nd the sum is doubled, the 1 B) 22	result is 14 less than the num C) –6	uber. Find the number. D) –22
	Answer: C			
185) The sum of twice a number a number. What is the number		is the same as the difference	e between -36 and the
	A) –5	B) -4	C) -6	D) -10
	/ -		,	,

186) The sum of two consecutive A) -165 Answer: D	ntegers is -327. Find the large B) -164	er integer. C) –162	D) -163
187) The sum of three consecutive A) 171, 173, 175 Answer: B	integers is 519. Find the integ B) 172, 173, 174	gers. C) 173, 174, 175	D) 171, 172, 173
188) The sum of three consecutive A) 67, 69, 71 Answer: B	odd integers is 201. Find the B) 65, 67, 69	integers. C) 69, 71, 73	D) 60, 61, 62
189) If three times the smaller of t smaller integer.	wo consecutive integers is add	ded to four times the larger, t	he result is 60. Find the
A) 7	B) 8	C) 24	D) 9
Answer: B			
190) If the first and third of three of integer. Find the third intege	÷	dded, the result is 87 less tha	n five times the second
A) 58 Answer: D	B) 29	C) 27	D) 31
191) The second angle of a triangl measure of the smallest angle	-	t. The third angle is 25° more	than the first. Find the
A) 31°	B) 25°	C) 155°	D) 65°
Answer: A			
192) The second angle of a triangl other two angles. Find the m	-	t. The third angle is 160° mor	e than the sum of the
A) $\frac{1}{2}^{\circ}$	B) 2°	C) 10°	D) 8°
Answer: D			
193) Two angles of a triangle are 5 A) -10°	50° and 50°. What is the measu B) 260°	ure of the third angle? C) 100°	D) 80°
Answer: D	_,	-)	_) ==
194) The complement of an angle	measures 22° less than the an	gle. Find the measure of the a	ingle.
A) 44°	B) 146°	C) 56°	D) 158°
Answer: C			
195) The supplement of an angle A) 126°	neasures 27° more than twice B) 54°	its complement. Find the me C) 36°	easure of the angle. D) 27°
Answer: D	,	,	,

196) Find the measures of the supplementary angles.

τ	prementary angles.		
9z° / 7z°			
(A) 202.5° and 157.5°	\rightarrow B) 101.25° and 78.75°	C) 50.63° and 39.38°	D) 96.25° and 83.75°
Answer: B			
97) Find the length of a rectange $(P = 2L + 2W)$	ılar lot with a perimeter of 82	2 meters if the length is 7 me	ters more than the width.
A) 48 m	B) 17 m	C) 41 m	D) 24 m
Answer: D			
98) A square plywood platform length of a side.	has a perimeter which is 6 ti	mes the length of a side, dec	reased by 6. Find the
A) 3	B) 1	C) 2	D) 5
Answer: A			
99) A rectangular Persian carpe width. What are the dimens		es. The length of the carpet is	22 inches more than the
A) 107 in., 129 in.	B) 70 in., 92 in.	C) 48 in., 70 in.	D) 96 in., 118 in.
Answer: C			
00) A triangular lake-front lot h the third side is 200 feet long	-	One side is 100 feet longer thand ad the lengths of all three side	
A) 300 ft, 400 ft, 500 ft	B) 100 ft, 200 ft, 300 ft	C) 400 ft, 500 ft, 600 ft	D) 400 ft, 400 ft, 400 ft
Answer: A			
01) You are traveling to your au are from your aunt's, how fa		way. If you are currently twi to the nearest tenth mile, if n	-
A) 81 miles	B) 162 miles	C) 121.5 miles	D) 40.5 miles
Answer: B			
02) Kevin invested money in a s account. How much did Key		% simple interest. After one y to the nearest penny, if neces	
A) \$40.01	B) \$3620.00	C) \$4001.05	D) \$3796.00
Answer: B			
03) Eric paid \$501.27, including cost? Round to the nearest p		r monitor. How much did th	e computer monitor itself
A) \$472.90	B) \$30.08	C) \$471.90	D) \$533.27
Answer: A			
04) The houses on the north side	e of Perry Street are consecut eir house numbers is 564. Fir		/oula are next-door
A) 283, 287	B) 281, 285	C) 281, 283	D) 285, 287
Answer: C			

Use the following table, which shows how much Bruce and Marty charge for cleaning various sizes of houses, to answer the question.

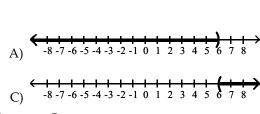
1000 \$45 1100 \$50 1200 \$55 2000 \$95 3000 \$145 205) For what size house is the cleaning cost \$105? A) 2200 sq ft B) 3200 sq ft C) 2300 sq ft D) 3100 sq ft Answer: A Solve the problem. 206) Allen warmed up by walking his dog for 20 minutes, then he jogged for 40 minutes. His walking rate was 240 feet per minute slower than his jogging rate. If he walked and jogged a total of 33,000 feet, how fast did he walk? A) 550 feet per minute B) 390 feet per minute B) 390 feet per minute C) 630 feet per minute D) 80 feet per minute C) 630 feet per minute D) 80 feet per minute Answer: B 207) Belinda drove for 2 hours in the fog then for 8 more hours in clear weather. She drove half as fast through the fog as she did in clear weather. If she drove 350 more miles in clear weather than she did in the fog, how fast c she drive in the fog? A) 50 mph B) 58 mph C) 33 mph D) 25 mph Answer: D 208) Oscar rode his bicycle at a rate of 9 mph and then speeded up to 16 mph. He rode 30 minutes longer at 9 mph than he did at 16 mph. If he traveled a total of 22 miles, how long did he ride at the slower rate? A) 1.06 hr, or 64 min B) 1.56 hr, or 94 min C) 1.2 hr, or 72 min D) 0.7 hr, or 42 min Answer: C	House cleaning in square feet	Cleaning rate			
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feet per minute slower than his jogging rate. If he walked and jogged a total of 33,000 feet, how fast did he walk? A) 550 feet per minute D) 80 feet per minute C) 630 feet per minute D) 80 feet per minute Answer: B 207) Belinda drove for 2 hours in the fog then for 8 more hours in clear weather. She drove half as fast through the fog as she did in clear weather. If she drove 350 more miles in clear weather than she did in the fog, how fast c she drive in the fog? A) 50 mph B) 58 mph C) 33 mph D) 25 mph Answer: D 208) Oscar rode his bicycle at a rate of 9 mph and then speeded up to 16 mph. He rode 30 minutes longer at 9 mph than he did at 16 mph. If he traveled a total of 22 miles, how long did he ride at the slower rate? A) 1.06 hr, or 64 min B) 1.56 hr, or 94 min C) 1.2 hr, or 72 min D) 0.7 hr, or 42 min Answer: C Insert the symbol <, >, >, or < to make the pair of inequalities equivalent. 209) $-3y \ge 21; y -7$ A) > B) < C) \le D) \ge Answer: C 210) $-7t \le -42; t = 6$ A) < B) \ge C) > D) \le Answer: B 211) $-4p > -24; p = 6$ A) \le B) \ge C) > D) \le Answer: C 212) $-7z < 43; p = 6$ A) \le B) \ge C) $<$ D) \ge Answer: C 212) $-5z < 15; z = -3$	-	alking his dog fo	r 20 minutes, th	en he jogged for 40 minute	s. His walking rate was 240
A) 550 feet per minute C) 630 feet per minute D) 80 feet per minute Answer: B207) Belinda drove for 2 hours in the fog then for 8 more hours in clear weather. She drove half as fast through the fog as she did in clear weather. If she drove 350 more miles in clear weather than she did in the fog, how fast of she drive in the fog? A) 50 mphB) 58 mphC) 33 mphD) 25 mph208) Oscar rode his bicycle at a rate of 9 mph and then speeded up to 16 mph. He rode 30 minutes longer at 9 mph than he did at 16 mph. If he traveled a total of 22 miles, how long did he ride at the slower rate? A) 1.06 hr, or 64 minB) 1.56 hr, or 94 minC) 1.2 hr, or 72 minD) 0.7 hr, or 42 min209) $-3y \ge 21; y -7$ A) >B) <	feet per minute slower				-
C) 630 feet per minute Answer: B 207) Belinda drove for 2 hours in the fog then for 8 more hours in clear weather. She drove half as fast through the fog as she did in clear weather. If she drove 350 more miles in clear weather than she did in the fog, how fast of she drive in the fog? A) 50 mph B) 58 mph C) 33 mph D) 25 mph Answer: D 208) Oscar rode his bicycle at a rate of 9 mph and then speeded up to 16 mph. He rode 30 minutes longer at 9 mph than he did at 16 mph. If he traveled a total of 22 miles, how long did he ride at the slower rate? A) 1.06 hr, or 64 min B) 1.56 hr, or 94 min C) 1.2 hr, or 72 min D) 0.7 hr, or 42 min Answer: C Insert the symbol <, >, >, or s to make the pair of inequalities equivalent. 209) $-3y \ge 21$; $y - 7$ A) > B) < C) \le D) \ge Answer: C 210) $-7t \le -42$; t 6 A) < B) \ge C) > D) \le Answer: B 211) $-4p > -24$; p 6 A) \le B) \ge C) $<$ D) \le Answer: C 212) $-5z < 15$; $z -3$		ite		B) 390 feet per minut	e
207) Belinda drove for 2 hours in the fog then for 8 more hours in clear weather. She drove half as fast through the fog as she did in clear weather. If she drove 350 more miles in clear weather than she did in the fog, how fast c she drive in the fog? A) 50 mphB) 58 mphC) 33 mphD) 25 mphA) 50 mphB) 58 mphC) 33 mphD) 25 mphDSmphAnswer: DD208) Oscar rode his bicycle at a rate of 9 mph and then speeded up to 16 mph. He rode 30 minutes longer at 9 mph than he did at 16 mph. If he traveled a total of 22 miles, how long did he ride at the slower rate? A) 1.06 hr, or 64 minB) 1.56 hr, or 94 minC) 1.2 hr, or 72 minD) 0.7 hr, or 42 minAnswer: CDSmphC) sD) 2D) 2Smph209) $-3y \ge 21; y -7$ A) >B) <	· · ·				
fog as she did in clear weather. If she drove 350 more miles in clear weather than she did in the fog, how fast c she drive in the fog? A) 50 mph B) 58 mph C) 33 mph D) 25 mph Answer: D 208) Oscar rode his bicycle at a rate of 9 mph and then speeded up to 16 mph. He rode 30 minutes longer at 9 mph than he did at 16 mph. If he traveled a total of 22 miles, how long did he ride at the slower rate? A) 1.06 hr, or 64 min B) 1.56 hr, or 94 min C) 1.2 hr, or 72 min D) 0.7 hr, or 42 min Answer: C Insert the symbol <, >, >, or < to make the pair of inequalities equivalent. 209) $-3y \ge 21$; $y = -7$ A) > B) < C) \le D) \ge Answer: C 210) $-7t \le -42$; t 6 A) < B) \ge C) $>$ D) \le Answer: B 211) $-4p > -24$; p 6 A) \le B) \ge C) $<$ D) \le Answer: C 212) $-5z < 15$; z -3	· •				
208) Oscar rode his bicycle at a rate of 9 mph and then speeded up to 16 mph. He rode 30 minutes longer at 9 mph than he did at 16 mph. If he traveled a total of 22 miles, how long did he ride at the slower rate? A) 1.06 hr, or 64 min B) 1.56 hr, or 94 min C) 1.2 hr, or 72 min D) 0.7 hr, or 42 min Answer: C Insert the symbol <, >, >, or < to make the pair of inequalities equivalent. 209) $-3y \ge 21; y -7$ A) > B) < C) \le D) \ge Answer: C 210) $-7t \le -42; t = 6$ A) < B) \ge C) > D) \le Answer: B 211) $-4p > -24; p = 6$ A) \le B) > C) < D) \ge Answer: C 212) $-5z < 15; z = -3$	fog as she did in clear w she drive in the fog?	weather. If she dr	ove 350 more m	iles in clear weather than s	he did in the fog, how fast did
than he did at 16 mph. If he traveled a total of 22 miles, how long did he ride at the slower rate? A) 1.06 hr, or 64 min B) 1.56 hr, or 94 min C) 1.2 hr, or 72 min D) 0.7 hr, or 42 min Answer: C Insert the symbol $\langle , \rangle, \rangle$, or \leq to make the pair of inequalities equivalent. 209) $-3y \geq 21; y -7$ A) $>$ B) $<$ C) \leq D) \geq Answer: C 210) $-7t \leq -42; t = 6$ A) $<$ B) \geq C) $>$ D) \leq Answer: B 211) $-4p > -24; p = 6$ A) \leq B) $>$ C) $<$ D) \leq Answer: C 212) $-5z < 15; z = -3$	Answer: D			•	· · ·
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	than he did at 16 mph. A) 1.06 hr, or 64 min	If he traveled a to	otal of 22 miles,	how long did he ride at the	e slower rate?
A) > B) < C) \leq D) \geq Answer: C 210) -7t \leq -42; t 6 B) \geq C) > D) \leq Answer: B B) \geq C) $>$ D) \leq 211) -4p > -24; p 6 B) $>$ C) $<$ D) \geq Answer: C B) $>$ C) $<$ D) \geq 212) -5z < 15; z -3 -3		nake the pair of i	nequalities equ	uivalent.	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		B) <		C) ≤	D) ≥
A) < B) \geq C) > D) \leq Answer: B 211) -4p > -24; p 6 A) \leq B) > C) <	Answer: C				
A) < B) \geq C) > D) \leq Answer: B 211) -4p > -24; p 6 A) \leq B) > C) <	210) –7t ≤ –42; t 6				
211) $-4p > -24; p = 6$ A) ≤ B) > C) < D) ≥ Answer: C 212) $-5z < 15; z = -3$,	B) ≥		C) >	D) ≤
A) \leq B) >C) <D) \geq Answer: C212) $-5z < 15; z$ -3	Answer: B				
A) \leq B) >C) <D) \geq Answer: C212) $-5z < 15; z$ -3	211) -4p > -24; p 6				
212) -5z < 15; z -3		B) >		C) <	D) ≥
	Answer: C				
	212) -5z < 15: z -3				
		B) ≤		C) <	D) ≥
Answer: A		,			

Classify the pair of inequalities as "equivalent" or "not equivalent." 213) $v \ge -4$; $-4 \le v$	
A) Equivalent	B) Not equivalent
Answer: A	
214) $w \le -2; -2 \le w$	
A) Equivalent	B) Not equivalent
Answer: B	
215) $-5s - 2 < 1; -5s < 3$	P) Not aquivalant
A) Equivalent	B) Not equivalent
Answer: A	
216) $-2f + 4 > 4; -2f > 8$	
A) Equivalent	B) Not equivalent
Answer: B	
Determine whether the given number is a solution of the inequality	7.
217) $x > -3, 6.8$	B) No
A) Yes	B) No
Answer: A	
218) $x > 8$, -14.2	
A) Yes	B) No
Answer: B	
219) x < -4, -8.1	
A) Yes	B) No
Answer: A	
220) x > 1, -3.9	
A) Yes	B) No
Answer: B	
221) x ≥ 10, 12.7	
A) Yes	B) No
Answer: A	,
222) x ≥ 14, -8.6	
A) Yes	B) No
Answer: B	
223) x ≤ 1, −4.1	
A) Yes	B) No
Answer: A	,
224) $x \le -8, -4$	D) N-
A) Yes	B) No
Answer: B	

Graph on a number line.

225) x > 6

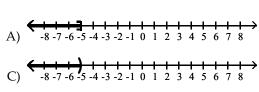
4



Answer: C

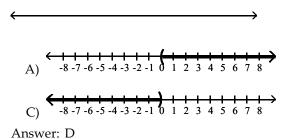
226) x < -5

←



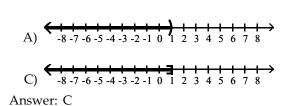
Answer: C

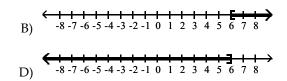
227) x ≥ 0

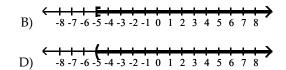


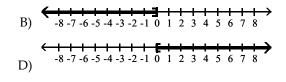
228) x ≤ 1

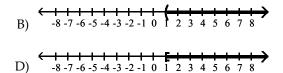
4

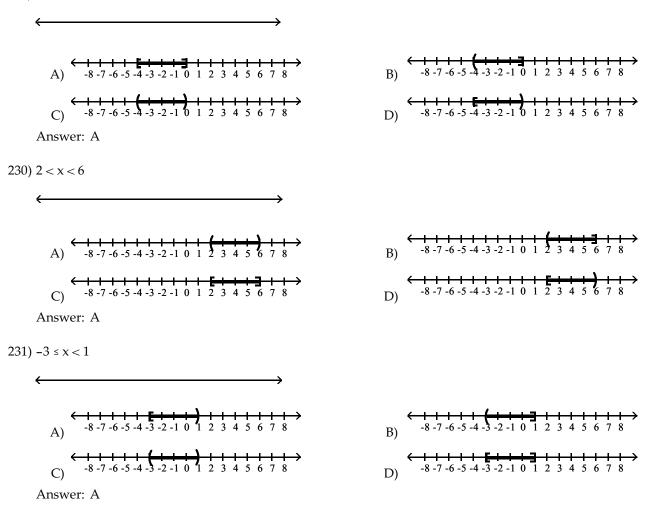










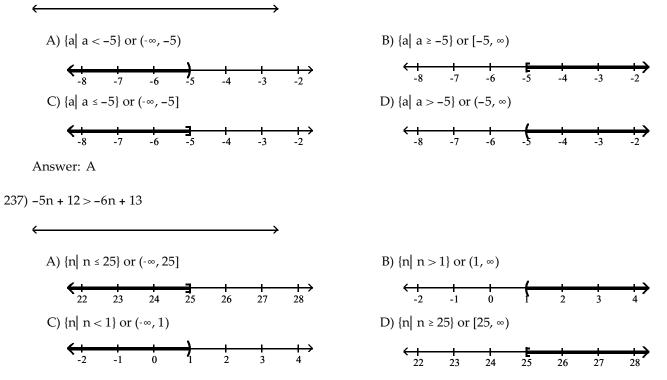


Describe the graph using both set-builder notation and interval notation. 232)

233)

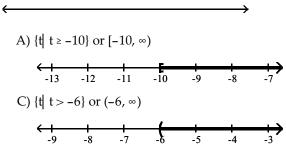
$$\begin{array}{l} \overleftarrow{(-1)} & \overrightarrow{(-1)} & \overrightarrow{(-1)} \\ -7 - 6 - 5 - 4 - 3 - 2 - 1 & 0 & 1 & 2 & 3 & 4 & 5 & 6 & 7 \\ \hline A) \{x | x \ge -1\} \text{ or } [-1, \infty) & B) \{x | x < -1\} \text{ or } (-\infty, -1) \\ C) \{x | x > -1\} \text{ or } (-1, \infty) & D)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

Solve using the addition principle. Graph and write set–builder notation and interval notation for the answer. 236) a – 10 < -15



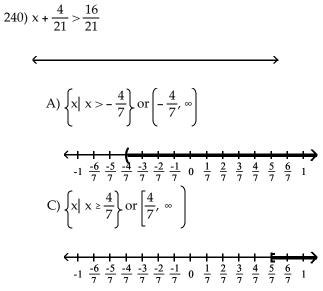
Answer: B

234)



Answer: A

Answer: D



Answer: D

B) {t | $t \le -10$ } or $(-\infty, -10]$ $\leftarrow -13 -12 -11 -10 -9 -8 -7$ D) {t | t < -6} or $(-\infty, -6)$ $\leftarrow -9 -8 -7 -6 -5 -4 -3$

B) {f |
$$f \ge -7$$
} or $[-7, \infty)$
 $\leftarrow -10 -9 -8 -7 -6 -5 -4$
D) {f | $f < -7$ } or $(-\infty, -7)$
 $\leftarrow -10 -9 -8 -7 -6 -5 -4$

B)
$$\left\{ x \mid x < \frac{5}{7} \right\}$$
 or $\left(-\infty, \frac{5}{7} \right)$
 $\left\{ \begin{array}{c} \begin{array}{c} \begin{array}{c} \hline & 1 \\ \hline & 1 \\ \hline & 1 \\ \hline & -1 \end{array} \begin{array}{c} \frac{-6}{7} \\ \hline & \frac{-5}{7} \end{array} \begin{array}{c} \frac{-4}{7} \\ \hline & \frac{-3}{7} \end{array} \begin{array}{c} \frac{-7}{7} \\ \hline & \frac{-1}{7} \end{array} \begin{array}{c} 0 \\ \hline & \frac{1}{7} \end{array} \begin{array}{c} \frac{2}{7} \\ \frac{3}{7} \end{array} \begin{array}{c} \frac{4}{7} \\ \frac{5}{7} \\ \frac{5}{7} \end{array} \begin{array}{c} \frac{6}{7} \\ 1 \end{array} \right)$
D) $\left\{ x \mid x > \frac{4}{7} \right\}$ or $\left(\frac{4}{7}, \infty \right)$
 $\left\{ \begin{array}{c} \hline & 1 \\ \hline & 1 \end{array} \begin{array}{c} \hline & 1 \\ \hline & 1 \end{array} \begin{array}{c} \hline & 1 \\ \frac{1}{7} \end{array} \begin{array}{c} \frac{-5}{7} \\ \frac{-4}{7} \end{array} \begin{array}{c} \frac{-3}{7} \\ \frac{-7}{7} \end{array} \begin{array}{c} \frac{-1}{7} \\ \frac{-1}{7} \end{array} \begin{array}{c} \frac{7}{7} \end{array} \begin{array}{c} \frac{-4}{7} \\ \frac{-3}{7} \end{array} \begin{array}{c} \frac{-2}{7} \\ \frac{-1}{7} \end{array} \begin{array}{c} \frac{4}{7} \\ \frac{5}{7} \end{array} \begin{array}{c} \frac{6}{7} \\ \frac{-1}{7} \end{array} \begin{array}{c} \frac{-5}{7} \end{array} \begin{array}{c} \frac{-4}{7} \\ \frac{-3}{7} \end{array} \begin{array}{c} \frac{-2}{7} \\ \frac{-1}{7} \end{array} \begin{array}{c} \frac{1}{7} \end{array} \begin{array}{c} \frac{2}{7} \\ \frac{3}{7} \end{array} \begin{array}{c} \frac{4}{7} \\ \frac{5}{7} \end{array} \begin{array}{c} \frac{6}{7} \end{array} \begin{array}{c} 1 \end{array} \end{array}$

$$241) x - \frac{2}{11} \ge -\frac{8}{11}$$

$$(\longrightarrow A) \left\{ x \mid x \ge -\frac{1}{11} \right\} \operatorname{or} \left(-\frac{1}{11}, \infty \right)$$

$$B) \left\{ x \mid x \le -\frac{1}{11} \right\} \operatorname{or} \left(\infty, -\frac{1}{11} \right)$$

$$(\longrightarrow -\frac{1}{11}, \infty \right)$$

$$B) \left\{ x \mid x \le -\frac{1}{11} \right\} \operatorname{or} \left(\infty, -\frac{1}{11} \right)$$

$$(\longrightarrow -\frac{1}{11}, \frac{1}{11}, \frac{1}{11}, \frac{2}{11}, \frac{3}{11}, \frac{4}{11}, \frac{5}{11}, \frac{6}{11}, \frac{7}{11} \right)$$

$$(\longrightarrow -\frac{1}{11}, \frac{6}{11}, \frac{5}{11}, \frac{4}{11}, \frac{3}{11}, \frac{2}{11}, \frac{3}{11}, \frac{4}{11}, \frac{5}{11}, \frac{6}{11}, \frac{7}{11} \right)$$

$$(\longrightarrow -\frac{1}{11}, \frac{6}{11}, \frac{5}{11}, \frac{4}{11}, \frac{3}{11}, \frac{2}{11}, \frac{3}{11}, \frac{4}{11}, \frac{5}{11}, \frac{6}{11}, \frac{7}{11} \right)$$

$$(\longrightarrow -\frac{1}{11}, \frac{6}{11}, \frac{5}{11}, \frac{4}{11}, \frac{3}{11}, \frac{2}{11}, \frac{3}{11}, \frac{4}{11}, \frac{5}{11}, \frac{6}{11}, \frac{7}{11} \right)$$

$$(\longrightarrow -\frac{1}{11}, \frac{6}{11}, \frac{5}{11}, \frac{4}{11}, \frac{3}{11}, \frac{2}{11}, \frac{3}{11}, \frac{4}{11}, \frac{5}{11}, \frac{6}{11}, \frac{7}{11} \right)$$

$$(\longrightarrow -\frac{1}{11}, \frac{6}{11}, \frac{5}{11}, \frac{4}{11}, \frac{3}{11}, \frac{2}{11}, \frac{3}{11}, \frac{4}{11}, \frac{5}{11}, \frac{6}{11}, \frac{7}{11} \right)$$

$$(\longrightarrow -\frac{1}{11}, \frac{6}{11}, \frac{5}{11}, \frac{4}{11}, \frac{5}{11}, \frac{6}{11}, \frac{7}{11} \right)$$

$$(\longrightarrow -\frac{1}{11}, \frac{6}{11}, \frac{5}{11}, \frac{4}{11}, \frac{5}{11}, \frac{6}{11}, \frac{7}{11} \right)$$

$$(\longrightarrow -\frac{1}{11}, \frac{6}{11}, \frac{5}{11}, \frac{4}{11}, \frac{5}{11}, \frac{6}{11}, \frac{7}{11} \right)$$

$$(\longrightarrow -\frac{1}{11}, \frac{6}{11}, \frac{5}{11}, \frac{4}{11}, \frac{5}{11}, \frac{6}{11}, \frac{7}{11} \right)$$

$$(\longrightarrow -\frac{1}{11}, \frac{6}{11}, \frac{5}{11}, \frac{4}{11}, \frac{5}{11}, \frac{6}{11}, \frac{7}{11} \right)$$

$$(\longrightarrow -\frac{1}{11}, \frac{6}{11}, \frac{5}{11}, \frac{4}{11}, \frac{5}{11}, \frac{6}{11}, \frac{7}{11} \right)$$

$$(\longrightarrow -\frac{1}{11}, \frac{6}{11}, \frac{5}{11}, \frac{4}{11}, \frac{5}{11}, \frac{6}{11}, \frac{7}{11} \right)$$

$$(\longrightarrow -\frac{1}{11}, \frac{6}{11}, \frac{5}{11}, \frac{4}{11}, \frac{5}{11}, \frac{6}{11}, \frac{7}{11} \right)$$

$$(\longrightarrow -\frac{1}{11}, \frac{6}{11}, \frac{6}{11}, \frac{7}{11}, \frac{7}{11}, \frac{7}{11}, \frac{7}{11}, \frac{7}{11}, \frac{7}{11}, \frac{7$$

Solve using the multiplication principle. Graph and write set-builder notation for the answer.

242)
$$\frac{x}{4} \ge 4$$

A) $\{x \mid x \ge 16\}$ or $[16, \infty)$
 $\overbrace{13 \quad 14 \quad 15 \quad 16 \quad 17 \quad 18 \quad 19}$
C) $\{x \mid x \le 16\}$ or $(-\infty, 16]$
 $\overbrace{13 \quad 14 \quad 15 \quad 16 \quad 17 \quad 18 \quad 19}$
Answer: A
243) $-5 < \frac{k}{2}$
A) $\{k \mid k \ge -10\}$ or $[-10, \infty)$
 $\overbrace{-13 \quad -12 \quad -11 \quad -10 \quad -9 \quad -8 \quad -7}$
C) $\{k \mid k \le -10\}$ or $(-\infty, -10]$
 $\overbrace{-13 \quad -12 \quad -11 \quad -10 \quad -9 \quad -8 \quad -7}$

B)
$$\{x \mid x > 16\}$$
 or $(16, \infty)$
 $(13 \quad 14 \quad 15 \quad 16 \quad 17 \quad 18 \quad 19)$
D) $\{x \mid x < 16\}$ or $(-\infty, 16)$
 $(13 \quad 14 \quad 15 \quad 16 \quad 17 \quad 18 \quad 19)$

B)
$$\{k \mid k < -10\}$$
 or $(-\infty, -10)$
 $\leftarrow -13 -12 -11 -10 -9 -8 -7$
D) $\{k \mid k > -10\}$ or $(-10, \infty)$
 $\leftarrow -13 -12 -11 -10 -9 -8 -7$

244)
$$-5 \ge \frac{x}{4}$$

$$(A) \{x \mid x \le -20\} \text{ or } (-\infty, -20]$$

$$(-23 -22 -21 -20 -19 -18 -17)$$

$$(-23 -22 -21 -20)$$

$$(-23 -22 -21 -20 -19 -18 -17)$$

Answer: A

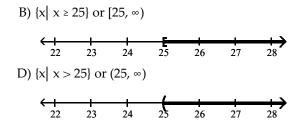
245)
$$10 > \frac{k}{-5}$$

←

→

Answer: D

246)
$$\frac{x}{5} > 5$$



$$247) \frac{b}{-2} < 2$$

A) (b| b = -4) or [-4, \(\infty\))

C) (b| b = -4) or (-4, \(\infty\))

C) (a| a < 12) or (-\(\infty\), 12)

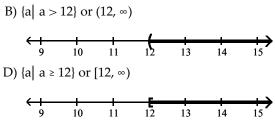
C) (a| a < 12) or (-\(\infty\), 12]

C) (a| a > -1/2) or (-\(\infty\), 12]

C) (a|

Answer: C

B) {b| $b \le -4$ } or (-∞, -4] $\leftarrow -7 -6 -5 -4 -3 -2 -1$ D) {b| b < -4} or (-∞, -4) $\leftarrow -7 -6 -5 -4 -3 -2 -1$



$$250) - \frac{6}{7} > -2x$$

A) $\left\{ x | x > \frac{3}{7} \right\} or \left[\frac{3}{7}, - \right]$

b) $\left\{ x | x < -\frac{1}{7} \right\} or \left[-\pi, -\frac{1}{7} \right]$

c) $\left\{ x | x < -\frac{3}{7} + \frac{1}{7}, -\frac{1}{7}, -\frac{1$

$257)\frac{x}{2} + 14 \le 10$			
A) $\{x x \ge -8\}$ or $[-8, \infty)$ C) $\{x x \le 6\}$ or $(-\infty, 6]$ Answer: B		B) $\{x \mid x \le -8\}$ or $(-\infty, -8]$ D) $\{x \mid x < -6\}$ or $(-\infty, -6)$	
258) 8 + 8x < 32 A) $\{x \mid x > 3\}$ or $(3, \infty)$ Answer: C	B) $\{x \mid x > 5\}$ or $(5, \infty)$	C) $\{x \mid x < 3\}$ or $(-\infty, 3)$	D) $\{x \mid x < 5\}$ or $(-\infty, 5)$
259) 8 + 8y \ge 72 A) {y y \le 10} or (- ∞ , 10] C) {y y \ge 10} or [10, ∞) Answer: B		B) $\{y y \ge 8\}$ or $[8, \infty)$ D) $\{y y \le 8\}$ or $(-\infty, 8]$	
260) $-9 < 7t + 3 - 6t$ A) {t t > -12} or (-12, ∞) C) {t t < -6} or (- ∞ , -6) Answer: A		B) $\{t \mid t < 6\}$ or $(-\infty, 6)$ D) $\{t \mid t > 12\}$ or $(12, \infty)$	
261) $9x - 15 > 3(2x - 1)$ A) $\{x \mid x \ge 4\}$ or $[4, \infty)$ Answer: D	B) $\{x \mid x \le 4\}$ or $(-\infty, 4]$	C) $\{x \mid x < 4\}$ or $(-\infty, 4)$	D) $\{x \mid x > 4\}$ or $(4, \infty)$
262) $-2(2y - 1) < -6y - 6$ A) {y y > -4} or (-4, ∞) C) {y y < -4} or (- ∞ , -4) Answer: C		B) $\{y \mid y \le -4\}$ or $(-\infty, -4]$ D) $\{y \mid y \ge -4\}$ or $[-4, \infty)$	
263) –12r – 8 ≤ –2(5r + 5) A) {r r ≥ 1} or [1, ∞) Answer: A	B) $\{r \mid r \le 1\}$ or $(-\infty, 1]$	C) $\{r \mid r < 1\}$ or $(-\infty, 1)$	D) $\{r \mid r > 1\}$ or $(1, \infty)$
264) $12n + 12 \le 3(3n - 2)$ A) $\{n \mid n > -6\}$ or $(-6, \infty)$ C) $\{n \mid n \ge -6\}$ or $[-6, \infty)$ Answer: D		B) $\{n \mid n < -6\}$ or $(-\infty, -6)$ D) $\{n \mid n \le -6\}$ or $(-\infty, -6]$	
265) $\frac{2}{3}(2x - 1) < -6$ A) $\{x \mid x \ge 4\}$ or $[4, \infty)$ C) $\{x \mid x \le -4\}$ or $(-\infty, -4]$ Answer: D		B) $\{x \mid x < 4\}$ or $(-\infty, 4)$ D) $\{x \mid x < -4\}$ or $(-\infty, -4)$	

266)
$$\frac{5}{6} \left[5x - \frac{2}{15} \right] - \frac{2}{5} < \frac{3}{5}$$

A) $\left\{ x \mid x \ge -\frac{4}{15} \right\}$ or $\left[-\frac{4}{15} \right]$
C) $\left\{ x \mid x \le \frac{4}{15} \right\}$ or $\left[\infty, \frac{4}{15} \right]$
Answer: D

Choose the inequality which describes the sentence. 267) x is less than y

B) x < y	C) x ≤ y	D) y < x
B) $x \ge y$	C) x > y	D) y ≥ x
B) y < x	C) x ≥ y	D) y ≥ x
B) x ≤ y	C) y ≤ x	D) x < y
aic inequality.		
7.		
B) x > 7	C) x ≥ 7	D) x ≤ 7
equal to -6.		
B) x ≥ -6	C) x < -6	D) x ≤ -6
ounds.		
B) x ≤ 143	C) x > 143	D) x ≥ 143
tween 82 and 68.		
B) 82 < x < 68	C) x > 68	D) x < 82
634.98.		
B) x ≥ 634.98	C) x ≤ 634.98	D) x < 634.98
a concert is not to exceed 123	34.	
B) x ≥ 1234	C) x > 1234	D) x < 1234
	B) $x \ge y$ B) $y < x$ B) $x \le y$ A ic inequality. 7. B) $x > 7$ equal to -6. B) $x \ge -6$ ounds. B) $x \ge -6$ ounds. B) $x \le 143$ tween 82 and 68. B) $82 < x < 68$ i634.98. B) $x \ge 634.98$ a concert is not to exceed 123	B) $x \ge y$ C) $x > y$ B) $y < x$ C) $x \ge y$ B) $x \le y$ C) $x \ge y$ B) $x \le y$ C) $y \le x$ additional content of the second sec

	277) The height of a member	of the basketball team is at :	least 78 inches.	
	A) x ≥ 78	B) x > 78	C) x ≤ 78	D) x < 78
	Answer: A			
Use a	an inequality and the five-ste 278) One side of a rectangle is least 42?			x will make the perimeter at
	A) $0 < x \le 5$	B) x < 5	C) x ≤ 5	D) x ≥ 5
	Answer: D			
	279) One side of a rectangle is most 52?	11 inches and the other sid	le is x inches. What values of :	x will make the perimeter at
	A) 0 < x ≤ 15	B) x ≥ 15	C) x ≤ 15	D) x < 15
	Answer: A			
	280) One side of a rectangle is the length of the shorter		perimeter is not to exceed 90.	Find the possible values for x,
	A) $0 < x \le 36$	B) 0 < x ≤ 9	C) x ≥ 36	D) x ≤ 9
	Answer: B			
	of the base will allow the	e perimeter of the triangle to	b be at least 40 cm?	er than the base. What lengths
	A) x ≤ 16	B) x ≥ 14	C) x > 10	D) 0 < x ≤ 14
	Answer: B			
	282) One side of a rectangle is square inches.	s 6 inches and the other side	e is x inches. Find the value of	x if the area must be at least 42
	A) $x = 7$	B) x ≥ 7	C) x ≤ 7	D) 0 < x ≤ 7
	Answer: B			
	283) The area of a triangle mu possible values for x.	ıst be at most 91 square incl	hes, the base is 13 inches, and	the height is x inches. Find the
	A) $0 < x \le 14$	B) x < 14	C) 0 < x ≤ 28	D) 0 < x ≤ 7
	Answer: A			
	284) The color guard is makir	ng new triangular flags that	must have a base of 18 inches	s to fit on their flagpoles. What
	is the maximum length o A) 12 in.	of the triangular flags, if the B) 48 in.	y want to use a maximum of C) 26 in.	216 in. ² of cloth? D) 24 in.
	Answer: D			
			ore front, but he must keep the e maximum height of the trian C) 32 ft	e sign under 20 ft ² to adhere to ngular sign? D) 5.0 ft
	Answer: D	D) 2.00 II	Cj 52 II	D J
	Albwel, D			

- 286) In order for a chemical reaction to take place, the Fahrenheit temperature of the reagents must be at least 124.24°F. Find the Celsius temperatures at which the reaction may occur. (F = $\frac{9}{\pi}$ C + 32)
 - A) $C \le 51.24^{\circ}$ B) $C \ge 255.63^{\circ}$ C) $C \ge 51.24^{\circ}$ D) $C < 255.63^{\circ}$ Answer: C

287) In order for a chemical reaction to remain stable, its Celsius temperature must be no more than 80.78°C. Find the Fahrenheit temperatures at which the reaction will remain stable. (F = $\frac{9}{5}$ C + 32) C) F ≥ 177.4° A) F ≥ 27.1° B) F ≤ 27.1° D) F ≤ 177.4° Answer: D 288) The equation y = 0.003x + 0.20 can be used to determine the approximate profit, y in dollars, of producing x items. How many items must be produced so the profit will be at least \$3467? A) $x \ge 1,155,734$ B) x ≤ 1,155,600 C) 0 < x ≤ 1,155,599 D) x ≥ 1,155,600 Answer: D 289) 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 47.2 seconds or less? A) 1979 or after B) 2003 or after C) 2005 or after D) 2004 or after Answer: D 290) 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 43 dollars? (Y is the actual year.) A) 2015 or after B) 2011 or after C) 2023 or after D) 2013 or after Answer: D 291) A salesperson has two job offers. Company A offers a weekly salary of \$540 plus commission of 18% of sales. Company B offers a weekly salary of \$1080 plus commission of 9% of sales. What is the amount of sales above which Company A's offer is the better of the two? A) \$12,000 B) \$3000 C) \$6100 D) \$6000 Answer: D 292) Company A rents copiers for a monthly charge of \$120 plus 8 cents per copy. Company B rents copiers for a monthly charge of \$240 plus 4 cents per copy. What is the number of copies above which Company A's charges are the higher of the two? A) 3000 copies B) 3100 copies C) 1500 copies D) 6000 copies Answer: A 293) A car rental company has two rental rates. Rate 1 is \$49 per day plus \$.14 per mile. Rate 2 is \$98 per day plus \$.07 per mile. If you plan to rent for one week, how many miles would you need to drive to pay less by taking Rate 2? A) more than 17,150 miles B) more than 68,600 miles C) more than 4900 miles D) more than 35,000 miles Answer: C 294) Jim has gotten scores of 66 and 90 on his first two tests. What score must he get on his third test to keep an average of 80 or greater? A) At least 78 B) At least 84 C) At least 78.7 D) At least 83 Answer: B

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295) A bag of marbles has twice as many blue marbles as green marbles, and the bag has at least 15 marbles in it. At least how many green marbles does it have?				
A) At least 10 green marb		B) At least 8 green m		
C) At least 6 green marble	es	D) At least 5 green m	narbles	
Answer: D				
296) Jon has 1023 points in his math class. He must have 84% of the 1300 points possible by the end of the term to receive credit for the class. What is the minimum number of additional points he must earn by the end of the term to receive credit for the class?				
A) 69 points	B) 859 points	C) 277 points	D) 1092 points	
Answer: A				
297) DG's Plumbing and Heating just over \$500 for an emerge A) 16 hours Answer: D	ncy call. How long to the B) 12 hours	nearest hour was the plumb C) 8 hours	ber at Bill's house? D) 6 hours	
298) A 9-pound puppy is gaining weight at a rate of $\frac{2}{3}$ lb per week. How much more time will it take for the				
puppy's weight to exceed $20\frac{2}{3}$ lb?				
A) more than $18\frac{1}{2}$ weeks		B) more than $8\frac{3}{4}$ we	ek(s)	
C) more than $44\frac{1}{2}$ weeks		D) more than $17\frac{1}{2}$ w	eeks	
Answer: D				

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