## Beginning and Intermediate Algebra 5th Edition Elayn Martin-Gay Test Bank

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MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. Identify the numerical coefficient of the term.

1) -10x A) 1	B) 10	C) -10	D) x	1)
2) 3y				2)
A) 1	B) y	C) 3	D) -3	
3) - a A) 1	B) 0	C) -1	D) a	3)
4) $-6^{x^2}$	2			4)
A) -6	B) x <sup>2</sup>	C) 6	D) 2	
5) $\frac{5}{8}$				5)
A) -5	B) <u>5</u> 8	C) $\frac{5}{8}$	D) z	
6) $\frac{3y}{7}$				6)
6) $\frac{3y}{7}$ A) $\frac{3}{7}$	B) -3	C) 3	D) $\frac{3}{7}$	
Indicate whether the list of t	erms are like or unlike.			
7) 4z, -10z A) like		B) unlike		7)
<sup>8)</sup> -3xy, 2 <sup>x<sup>2</sup></sup> y				8)
A) like		B) unlike		
9) $_{-6}z^2$ , 8z		P) unlike		9)
A) like		B) unlike		10)
10) <sub>13x</sub> y <sup>2</sup> <sub>z, -4x</sub> y <sup>2</sup> A) like		B) unlike		10)

11) a <sup>2</sup> <sub>b, 8b</sub> a <sup>2</sup>	
A) like	B) unlike

#### Simplify the expression by combining any like terms.

12) 2x + 7x A) 9x	B) -5x	C) 14x	D) 9 + x	12)
13) 6b - 2b A) <sub>4</sub> b <sup>2</sup>	B) 4b	C) -8b	D) -4b	13)
14) 2y + y - 7y				14)

11) \_\_\_\_\_

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	A) -4y	B) -5y + y	C) -6y	D) -5y	
	15) $3z - 12z - z$	R) Oz z	C) 87	D) 107	15)
	A) -9z	B) -9z - z	C) -8z	D) -10z	
	16) $5a - 2a + 3$			$\mathbf{D}$	16)
	A) 6a	B) 3a + 3	C) - 3a + 3	D) 7a + 3	
	17) 12x - x - 4x - x A) 6x	B) x <sup>2</sup> + 8x	C) 8x	D) _x <sup>2</sup> + 8x	17)
		-		-	
	18) 8x - 4 + 2x + 1 A) 7	B) 7x	C) 6x - 3	D) 10x - 3	18)
	A) /	0)77	C) 0X - 5	D) 10x - 5	
	19) 8a - 3a - a - 15		0.4.45		19)
	A) 5a - 16	B) 5a - a - 15	C) 4a - 15	D) 5a - 15	
	20) 6y + 2 - 4 y + 7				20)
	A) 10y + 9	B) 2y + 9	C) 2y - 5	D) 11y	
	21) 11x - 8 + 4x + x + 7				21)
	A) 14x - 1	B) 16x - 1	C) 15x - 1	D) 15x + 1	,
	22) - 6m + 6 - 3 + 2 + m - 5				22)
	A) - 7m	B) - 5m	C) - 5m - 1	D) - 7m + 1	<i>22)</i>
					22)
	23) 0.4c + 2 + 5c + 2.7 A) 2c + 5.4		B) 10.1		23)
	C) $0.4c + 5c + 2 + 2.7$		D) $5.4c + 4.7$		
					24)
	24) 5.5w - 1.4 - 3.1w + 6 + 2.8w A) 5.2w + 7.4	B) 5.2w - 4.6	C) 11.4w + 4.6	D) 5.2w + 4.6	24)
			,	,	
	25) $9x^2 + 5x + 2 + 3x + 8 + 5x^2$		2	2	25)
	A) $14^{x^4} + 8^{x^2} +$	B) <sub>32</sub> x <sup>3</sup>	C) $14^{x^2} + 8x + 10^{x^2}$	D) $7^{x^2} + 12x + 13$	
	10				
Simpl	ify the expression. First use th	ne distributive property	to remove any parenthese	25.	
	26) $9(y+6)$		<b>0 1</b>		26)
	A) y + 54	B) 9y + 6	C) 9y + 54	D) 9y + 15	
	27) 5(x - 2)				27)
	A) 5x - 10	B) 5x - 2	C) 5x - 7	D) 5x + 10	
	28) - 6(r + 8)				28)
	A) r - 48	B) - 6r - 48	C) - 6r - 8	D) - 6r + 48	,
	29) -10(z - 3)				29)
	A) $-10(z - 3)$	B) -10z + 30	C) 10z + 30	D) -10z - 30	<i></i>
	30) 7(4d + 8)				30)

A) 11d + 15	B) 84d	C) 28d + 8	D) 28d + 56	
31) 8(2n - 4) A) 16n - 32	B) 10n - 12	C) 16n + 32	D) 16n - 4	31)
32) - 6(8x + 5) A) 2x - 1	B) - 78x	C) - 48x - 30	D) - 48x + 5	32)
33) - 2(7y - 6) A) - 14y + 12	B) - 14y - 12	C) - 14y - 6	D) 5y - 4	33)
34) - 3(10r + 5) + 10(2r + 8) A) -10r + 65	B) - 45r	C) -10r + 5	D) 7r + 2	34)
35) 4(3x + 6 + y) A) 12x + 6 + y	B) 12x + 24 + 4y	C) 12x + 24 + y	D) 12x + 6 + 4y	35)
36) 9(6x + 8y + 3) A) 54x + 8y + 3	B) 54x + 72y + 27	C) 54x + 72y + 3	D) 54x + 8y + 27	36)
37) -(- 7m + 6n - 4) A) - 7m + 6n - 4	B) 7m - 6n - 4	C) - 7m + 6n + 4	D) 7m - 6n + 4	37)
38) -(5y - 2z + 8) A) - 5y - 2z + 8	B) - 5y + 2z + 8	C) - 5y + 2z - 8	D) - 5y - 2z - 8	38)
39) (12z + 7) - (5z - 4) A) 17z + 11	B) 7z + 3	C) 7z - 11	D) 7z + 11	39)
40) 10(y + 4) - 3 A) 10y + 1	B) 10y + 37	C) 14y - 3	D) 10y + 10	40)
41) 5x + 4(x + 4) A) 20x + 8	B) 6x + 16	C) 9x - 16	D) 9x + 16	41)
42) -4(2x - 9) - 4x + 6 A) -12x + 42	B) -12x - 30	C) 12x + 42	D) 4x + 42	42)
43) 6(x - 3) + 8x + 8 A) 14x + 26	B) 14x - 26	C) 2x - 10	D) 14x - 10	43)
44) 6m + 4n - 4m + 10(m - 7n) A) -8m + 74n	B) 12m - 66n	C) 20m + 74n	D) 12m - 3n	44)
45) $\frac{2}{7}(z-14) - \frac{1}{14}z$				45)
$\begin{array}{c} A \end{array} \underbrace{ \begin{array}{c} 5 \\ 14 \\ 2 \end{array}}_{z-4} \end{array}$	B) $\frac{5}{14}z + 4$	C) $\frac{5}{14}$ z + 4	D) $\frac{3}{14}$ z + 14	
46) $\frac{1}{2}(6x+1) - \frac{3}{4}(4x-8)$				46)

	A) 13	B) - 11	C) $\frac{13}{2}$	D) $\frac{11}{2}$	
	47) - 7.7(3r + 2) + 5.7(5r + 9) A) 5.4r + 35.9	B) 5.4r + 2	C) - 38.5r	D) -4.7r - 5.7	47)
Write	e the following as an algebraic	expression. Simplify if p	possible.		
	48) Add 6x - 4 to 4x - 14. A) 2x - 18	B) 10x - 10	C) 10x + 18	D) 10x - 18	48)
	49) Add 9x + 7 to 2x - 4. A) 11x + 11	B) 11x - 11	C) 11x + 3	D) 7x + 3	49)
	50) Subtract 6x + 4 from 3x - 3. A) 3x + 7	B) 9x + 1	C) -3x - 1	D) -3x - 7	50)
	51) Subtract 4x - 8 from 6x + 7 A) 2x - 15	B) 2x + 15	C) 10x - 1	D) -2x - 15	51)
Write	e the following phrase as an alg 52) Two times a number, incre		implify if possible. Let x	represent the unknow	<b>wn number.</b> 52)
	A) 2x + 12	B) 2x - 12	C) 2 + 12x	D) 2x + 24	
	53) The difference of thirteen a A) $\frac{x}{2}$ 13 -	and a number, divided by B) <u>x - 13</u> 2	C) $\frac{x}{2}$ - 13	D) <u>13 - x</u> 2	53)
	54) One-half a number, minus	nine, plus three times th	e number		54)
	A) $\frac{1}{2}_{x-6}$	B) $\frac{1}{2}$ x - 9 + 3x	e number C) $\frac{7}{2}$ x - 9	D) $\frac{7}{2} + \frac{9}{2} = \frac{1}{2}$	
	55) The sum of four times a nu				55)
	A) 4x + 16	B) 10x - 4	C) 10x + 10	D) 10x + 46	
Write	Write the algebraic expression described. 56) To convert from meters to centimeters, we multiply by 100. For example, the number of				
	centimeters in 3 meters is $100 \cdot 3 = 300$ . If one piece of string has a length of $x - 3$ meters, and another piece of string has a length of $7x + 6$ centimeters, express their total length in centimeters as an algebraic expression.				
	A) (107x - 294) cm	B) $(8x + 3)$ cm	C) (701x + 597) cm	D) (800x + 300) cm	
	57) The value of 8 dimes is 10 2x - 2 nickels, 5x dimes, as cents as an algebraic expre	nd x quarters in his chang			57)
	A) (85x - 2) cents	B) $(85x + 10)$ cents	C) (85x - 10) cents	D) (60x - 10) cents	
	58) Given the following quadr	ilateral, express the perir	neter, or total distance are	ound the figure, as	

58) Given the following quadrilateral, express the perimeter, or total distance around the figure, as an algebraic expression containing the variable x.

58) (2x + 1) inche	25			
	(x - 3)	inches		
5 inches	7			
	4x inches			
A) $(6x + 9)$ in.	B) $(6x + 3)$ in.	C) $(7x + 3)$ in.	D) (7x + 9) in.	
Solve the equation.				50)
59) x - 4 = 15 A) -11	B) 11	C) -19	D) 19	59)
60) $18 = r + 3$				60)
60) 18 = 1 + 3 A) 15	B) -21	C) 21	D) -15	60)
61) t - 1 = 18				61)
A) -19	B) 19	C) 17	D) -17	01)
62) 1				62)
62) $\frac{1}{4}$ + f = 5				
A) 19	B) 1	C) $\frac{21}{4}$	D) <u>19</u> 4	
		т	4	
63) $12 + 6y = 7y$	D\ 10	() 1		63)
A) -12	B) 12	C) -1	D) 6	
64) $5.9 + x = 20.6$	P) 26 5	C) 14 7	D) 14.2	64)
A) 26	B) 26.5	C) 14.7	D) 14.2	
65) 7y = 6y - 4.7 A) 7	B) 4.7	C) -17.7	D) -4.7	65)
Solve the equation. Don't forget to $66) 3(y + 5) = 4(y - 6)$	o first simplify each side	of the equation, if possib	le.	66)
A) 39	B) 9	C) -9	D) -39	
67) $3(2z - 4) = 5(z + 3)$				67)
A) 27	B) -3	C) 6	D) 3	,
68) -6(x - 7) - (-7x + 6) = 5				68)
A) - 18	B) - 31	C) 41	D) 31	
69) 10n = 3n + 9 + 6n				69)
A) 9	B) -9	C) -90	D) 90	
70) - 4k + 2 + 5k = 6 - 20				70)
A) -28	B) -16	C) 16	D) 28	
71) - 9c + 5 + 7c = $-3c + 10$		_		71)
A) 5	B) 10	C) -5	D) -10	

72) $\frac{3}{4}y + \frac{1}{3} = -\frac{1}{4}y - \frac{3}{8}$				72)
$\begin{array}{rcl} y + & = - & y - \\ A & \frac{6}{17} \end{array}$	B) $\frac{17}{24}$	C) $\frac{1}{24}$	D) <u>17</u> 24	
73) 8(3x + 7) = 25x A) -7	B) 7	C) 56	D) -56	73)
74) 3n - 2n - 2 = - 2 A) 2	B) - 4	C) - 2	D) 0	74)
75) - 8w - 13 + 9w = -8 A) -5	B) -21	C) 21	D) 5	75)
76) -22 + 15 = 8x + 3 - 7x A) 40	B) -10	C) -40	D) 10	76)
77) -8.6 + 2x - 6.3 + 5x - 2.3 A) -24.4	= 5.5 + 8x + 1.7 B) 24.4	C) 10	D) -10	77)
<b>Solve the equation.</b> 78) -6x = 30 A) -5	B) 1	C) 36	D) -36	78)
79) -4n = -20 A) 2	B) -16	C) 16	D) 5	79)
80) -5x = 0 A) 5	B) 1	C) 0	D) -5	80)
81) -z = 4 A) -1	B) 0	C) 4	D) -4	81)
82) $\frac{1}{7}$ y = -6 A) 0	B) 1	C) -1	D) -42	82)
$\begin{array}{c} 83) \frac{1}{21} \\ a = 0 \\ 4 \\ 0 \end{array}$				83)
11)0	B) 1	C) 21	D) -21	84)
84) $-\frac{3}{8}k = \frac{3}{2}$ A) -3	B) 4	C) -4	D) 5	,
85) $\frac{6}{7} = \frac{1}{6}$				85)
A) $\frac{36}{7}$	B) $\frac{7}{36}$	C) $\frac{7}{6}$	D) $\frac{7}{36}$	

86) $\frac{n}{4}$ 2				86)
= 2 A) 6	B) 8	C) 5	D) 0	
$(87) \frac{v}{-2} = 10$				87)
A) 12	B) -20	C) 20	D) -12	
88) -35 = -7c A) 2	B) -28	C) 28	D) 5	88)
89) $\frac{x}{8} + 6 = 14$				89)
A) 16	B) 64	C) 160	D) 162	
90) $-2x - 2x + 7 = -9x$ A) $\frac{7}{5}$	B) <u>7</u> 5	C) $\frac{7}{13}$	D) $\frac{5}{7}$	90)
91) 8r + 10 = 66 A) 48	B) 52	C) 7	D) 1	91)
92) 4n - 9 = 11 A) 5	B) 11	C) 20	D) 16	92)
93) 24 = -5x - 6 A) 39	B) 35	C) 1	D) -6	93)
94) $\frac{1}{5}a - \frac{1}{5} = -6$ A) 29	B) -29	C) 31	D) -31	94)
95) $\frac{1}{4}$ f - 5 = 1				95)
A) 16	B) -16	C) 24	D) -24	
96) 6x - 14x = -5 - 19 A) 8	B) -8	C) 3	D) -3	96)
97) 7x - x = 33 - 3 A) 5	B) 6	C) -5	D) -6	97)
98) $8x - 9 + 4x + 8 = 6$ A) $\frac{7}{12}$	B) $\frac{11}{12}$	C) $\frac{7}{12}$	D) $\frac{7}{4}$	98)
99) $6z + 6 - 4(z + 1) = -(3z - 1)$ A) $\frac{1}{5}$	B) $\frac{3}{5}$	C) $\frac{1}{2}$	D) $\frac{1}{6}$	99)

100) $-3(2x + 2) - 1 = -5(x + 1)$ A) $\frac{1}{4}$	+ 3x B) 0	C) $\frac{1}{2}$	D) $\frac{3}{2}$	100)
101) 0.7x - 0.9x - 4 = 6 A) 50	B) -50	C) 46	D) -46	101)
102) -6.1z + 1.1 = -12.4 - 1.6z A) 2.5	B) 3	C) 2.2	D) -18	102)
103) $\frac{1}{5}(x+6) = \frac{1}{7}(x+8)$ A) -1				103)
A) -1	B) -12	C) {3}	D) 1	
104) $\frac{1}{7}(x+14) + \frac{1}{9}(x+9)$ A) $\frac{189}{65}$	= x - 4			104)
A) <u>189</u> <u>65</u>	B) $\frac{441}{65}$	C) <u>63</u> 13	D) $\frac{63}{65}$	
Write the algebraic expression de	escribed. Simplify if pose	sible.		
105) Two numbers have a su A) 32 - 2q	m of 32. If one number is B) q - 32	q, express the other nu C) 32 - q	mber in terms of q. D) q + 32	105)
106) A 30-centimeter piece o other length as an algeb		es. If one piece is z centi	imeters long, express the	106)
A) $(z + 30)$ cm	B) (30 - z) cm	C) (z - 30) cm	D) (30 - 2z) cm	
107) In the race for Student E received x votes, how m	Body President, Jose recei nany votes did Jose receiv		n Angela. If Angela	107)
A) (x - 325) votes	B) (x + 325) votes	C) 325x votes	D) (325 - x) votes	
108) During a walk-a-thon, F many laps did Rosilyn v	walk?	-	-	108)
A) (b - 9) laps	B) <u>b</u> 9 laps	C) (b + 9) laps	D) (9 - b) laps	
109) If x represents the first of terms of x.	of four consecutive even i	ntegers, express the sun	n of the four integers in	109)
A) 4x + 4	B) 4x + 12	C) x + 12	D) 4x + 6	
110) If x represents the first of and the fourth integer in	n terms of x.			110)
A) 4x + 12	B) $4x + 8$	C) $2x + 6$	D) 2x + 8	
111) If x is the first of three c algebraic expression in	· ·		e third integer as an	111)
A) x + 38	B) x + 37	C) 2x + 39	D) x + 39	
112) The sum of the angles o angle measures $(6x + 25)$	f a triangle is $180^{\circ}$ . If one $\overline{0}^{\circ}$ , express the measure o			112)

A) (155 - 7x)°	B) (155 - 6x)°	C) (205 - 7x)°	D) (155 + 7x)°	
113) A quadrilateral is a four-s second angle measures 4x angle in terms of x.		-		113)
A) (360 - 9x)°	B) (360 - 10x)°	C) (360 + 10x)°	D) (10x - 360)°	
Solve.			. 1 (41	114)
114) A pharmacist is asked to a If the antibiotic is to be giv given in each dose?			-	114)
A) 3.75 ml	B) 0.94 ml	C) 1.88 ml	D) 1.07 ml	
Solve the equation.				
115) $7x - (5x - 1) = 2$ A) $\frac{1}{2}$	B) $\frac{1}{2}$	C) $\frac{1}{12}$	D) $\frac{1}{12}$	115)
116) $3(2x - 1) = 12$ A) $\frac{3}{2}$	B) 5	C) 11	D) 13	116)
$\frac{1}{2}$	B) $\frac{5}{2}$	C) $\frac{11}{6}$	D) <u>13</u> <u>6</u>	
117) $(y - 6) - (y + 2) = 5y$ A) $\frac{8}{5}$	B) - 2	C) $\frac{4}{3}$	D) <u>3</u> 5	117)
5		- 3	_ 5	
118) $7n = 8(5n + 6)$ A) $\frac{11}{16}$	B) <u>16</u> <u>11</u>	C) <u>48</u> 7	D) <u>16</u> <u>11</u>	118)
			-	110)
119) $6y = 7(5y - 9)$ A) $\frac{29}{63}$	B) <u>63</u> <u>29</u>	C) <u>21</u> 2	D) $\frac{63}{29}$	119)
120) $15(8x - 5) = 4x - 8$	D) 83	C) 67	D) 67	120)
A) <u>67</u> <u>124</u>	B) <u>83</u> <u>116</u>	C) $\frac{67}{116}$	D) <u>67</u> 116	
121) 2(y + 6) = 3(y - 8) A) -12	B) 12	C) 36	D) -36	121)
122) 3(2z - 4) = 5(z + 2) A) 1	B) -2	C) 22	D) 2	122)
123) 3(2z - 4) = 5(z - 4) A) 32	B) 8	C) -8	D) 11	123)
124) -6x + 7(-2x - 2) = -29 - 5x A) - 1	B) 1	C) <u>43</u> 25	D) <u>43</u> 15	124)
			10	

125) $\frac{1}{6}$ x - 3 = 1				125)
A) -24	B) -12	C) 24	D) 12	
126) $\frac{1}{5} \times \frac{1}{5} = -3$				126)
A) 16	B) 14	C) -14	D) -16	
127) $\frac{x}{7}$ - 9 = -5 A) 28				127)
A) 28	B) -30	C) 30	D) -28	
128) $\frac{2}{5}x - \frac{1}{3}x = 3$				128)
x - x = 3 A) -90	B) -45	C) 45	D) 90	
129) $\frac{3}{2}_{x + \frac{1}{5}} = \frac{7}{5}_{x}$				129)
A) -16	B) 2	C) 16	D) -2	
130) $\frac{1}{3}_{x+2} = \frac{1}{6}_{x+3} + \frac{4}{3}_{x+2}$				130)
A) 4	B) -4	C) 3	D) -12	
$131) \frac{4(8-x)}{3} = -x$				131)
A) -4	B) 32	C) -32	D) 4	
132) $\frac{5(8-x)}{3}$				132)
= x A) -40	B) 40	C) -5	D) 5	
133) $\frac{5(y-4)}{3}$				133)
= 2y - 5 A) -5	B) -35	C) 35	D) 5	
134) -0.08y + 0.12(5000 - y) = 0 A) 7200	.05y B) 1500	C) 150	D) 2400	134)
135) -0.65(20) + 0.70x = 0.40(20	) + x)			135)
A) 70	B) 80	C) 35	D) 60	
136) 0.50x - 0.30(50 + x) = -0.18 A) 40	6(50) B) 15	C) 30	D) 20	136)
137) 1.3x + 4.4 = 0.7x - 0.52 A) -8.19	B) -8.118	C) -8.2	D) 0.122	137)
138) 7x - 5 - 7x + 1 = 6x - 6x - 7				138)

A) -224 C) all real	numbers	B) no solution D) 0		
139) $4(x + 6) = (4x)$	( + 24)			139)
A) all real		B) 48		
C) no solu		D) 0		
140) 4(x + 5) - (4x	+20) = 0			140)
A) no solu		B) 0		/
C) 5		D) all real numbers		
141) -7(x + 7) + 68	B = 2x - 9(x + 1)			141)
A) 59		B) 77		
C) no solu	tion	D) all real numbers		
142) $\frac{x}{6} = \frac{x}{6}$				142)
A) all real	numbers	B) 0		
C) 24	numbers	D) no solution		
0) = 1		2)110 00144011		
143) $\frac{1}{3}(6x - 9) = 60$	$\left(\frac{1}{3}x - \frac{1}{2}\right) + 8$			143)
A) no solu		B) all real numbers		
C) 2		D) 0		
144) 1.1m - 1.3 - 6	.6m = -5.1 - 5.5m + 3.8			144)
A) 0		B) no solution		
C) -4.0		D) all real numbers		
145) 0.07(6x - 6) =	0.42(x + 7) - 3.36			145)
A) -0.42		B) -3.36		
C) no solu	tion	D) all real numbers		
-	variable expression. Use x for t	he unknown number.		
146) A number su				146)
A) -2 + x	B) -2 - x	C) x + 2	D) x - 2	
147) Three times	a number			147)
A) $\frac{3}{x}$	B) 3x	C) x - 3	D) 3 - x	
148) The sum of	18 and twice a number			148)
A) 2(-18 +	18 and twice a number x) B) -18 + x	C) -18 + 2x	D) -18 - 2x	148)
				1.10
,	ce of -15 and twice a number		D) 15 0	149)
A) -15 - 2x	B) 2(-15 - x)	C) 2x + 15	D) -15 + 2x	
150) The product	of -24 and the sum of a number	and 29		150)
A) $-24x + 2$		C) -24(x + 29)	D) -696x	,
151) The auotient	of - 13 and the difference of a r	number and 8		151)
A)				/

$\frac{-13}{x-8}$	B) $\frac{-13}{8-x}$	C) $\frac{8}{x+13}$	D) $\frac{-13}{x+8}$	
Write the following as an e 152) Four times a num A) $4x + 8x = 60$ C) $4x - 8x = 60$ ;	ber added to 8 times ; 5	the unknown number. The the number equals 60. Find B) $4x(8 + x)$ D) $4(x + 8) =$	d the number. = 60; 7.5	152)
	umber is subtracted f 9		he result is 18. Find the numb = 18; -9	er. 153)
154) If 5 times a numb A) 5x + (-4) = 9 C) 14x - 9x = 4;	x; -1	result is equal to 9 times th B) 4x + (-4) D) 9(5x - 4)		154)
155) Three-fourths of (A) $\frac{3}{4} + x = \frac{1}{2}$ ; $\frac{1}{2}$	a number is $\frac{1}{2}$ . Find B) $\frac{3}{4} = \frac{1}{2}$	the number in lowest terms $\frac{4}{6}$ C) $\frac{3}{4}$ $\frac{1}{2}$ ; $x = \frac{1}{2}$ ;	s. $\frac{3}{8}$ D) $\frac{3}{4} \frac{1}{x} = \frac{2}{3}$	155)
156) The sum of four t the number. A) 4x + 3 = 2x - C) 4x + 3 = 2x -	1; -2	-	of twice the number and 1. Fir $\frac{13}{2}$ = 2x - 1; - 2x - 1; 2	nd 156)
		hree is the same as the diff	erence of twice the number ar	nd 157)
eleven. Find the r A) -7	B) 4	C) 7	D) -17	
158) The difference of number.	triple a number and	$\frac{1}{2}$ is equal to the sum of the	The number and $\frac{2}{3}$ . Find the	158)
A) <u>7</u> 12	B) <u>7</u> 12	C) <u>1</u> 12	D) <u>13</u> 12	
159) If the sum of a nu Find the number.		bled, the result is six less th	han three times the number.	159)
A) 22	B) 5	C) 10	D) $\frac{2}{5}$	
three. Find the nu	ımber.	-	es the sum of the number and	160)
A) -7	B) -2	C) 11	D) -11	
161) Six times a numb	er, added to -3, is 21.	Find the number.		161)

A) 24	B) 144	C) -4	D) 4	
162) Nine times a number				162)
A) 9	B) 729	C) 81	D) -9	
163) Four times the sum o	-	-	mber minus 15.	163)
A) 27	B) 9	C) -9	D) -27	
164) The difference of a n A) - 28	umber and 9 is the sam B) 19	e as 47 less the number. F C) 28	ind the number. D) - 19	164)
165) Five times some nun	nber added to 3 amount	ts to -3 added to the prod	uct of 3 and the number.	165)
A) -3	B) 6	C) -6	D) 3	
166) Six times the sum of	a number and -18 amou	unts to 42. Find the numb	per.	166)
A) -11	B) 4	C) 25	D) 10	
167) A number subtracted	from 12 is the quotien	t of -20 and -5. Find the n	umber	167)
A) 8	B) 7	C) 16	D) -88	107)
heads. If the total of A) president's sala B) president's sala C) president's sala	their salaries is \$200,000 ny = \$100,000; departme ny = \$50,000; departme ny = \$15,000; departme	three times as much mon ), find each worker's salar ent head's salary = \$50,00 nt head's salary = \$150,00 nt head's salary = \$5000 ent head's salary = \$50,00	00	168)
marbles in the first b A) 1st bag = 5 mar B) 1st bag = 6 mar C) 1st bag = 6 mar	ag and the third bag ha ag, find the number of bles; 2nd bag = 10 mark bles; 2nd bag = 14 mark bles; 2nd bag = 18 mark	s twice as many as the fir	est bag. If x is the number of	169)
for all calls. If Joe's p	0	r this promotional deal, h	sic fee plus \$0.05 per minute low many minutes of phone D) 1280	170)
	nd angle is (3x - 2)°, find 2nd angle = 59°	the measure of each ang B) 1st angle = 2	he first angle is x°, and the le. 2°; 2nd angle = 64° 3°; 2nd angle = 67°	171)
to spend.	car for 5 days, how ma	ny whole miles can you c	trive if you only have \$200	172)
A) 326	B) 40	C) 51	D) 75	
	into 2 pieces so that one s x feet long, find the ler		n 3 times the shorter piece.	173)

A) shorter piece: 6 ft C) shorter piece: 1 ft		· •	4 ft; longer piece: 44 ft 8 ft; longer piece: 36 ft	
174) Mary and her brother J				174)
A) 120 coins	they have 160 foreign co B) 40 coins	C) 112 coins	D) 24 coins	
175) Center City East Parkir Garage. If the combine garage.	ng Garage has a capacity o d capacity for the two gai			175)
A) Center City East:	742 cars	B) Center City Eas	t: 483 cars	
Center City West		Center City We		
C) Center City East:	473 cars	D) Center City Eas	t: 752 cars	
Center City West	: 752 cars	Center City We	st: 473 cars	
176) During an intramural l both teams scored a to A) 65 points	pasketball game, Team A tal of 14 7 points. How ma B) 6 6 points	-	-	176)
177) To trim the edges of a cloth is exactly one-hal	rectangular table cloth, 66 f its width. What are the o		-	177)
A) length: 22 ft; widt	:h: 44 ft	B) length: 11 ft; wi		
C) <u>1</u>		D) length: 22 ft; wi	dth: 11 ft	
C) $\frac{1}{1}$ length: $5^2$ ft; wid	lth: 11 ft			
178) The length of a rectang	ular room is 6 feet longer	than twice the width.	If the room's perimeter is	178)
132 feet, what are the r				
A) Width = $20$ ft; len	0	B) Width = 25 ft; le	0	
C) Width = 40 ft; len	gth = 92 ft	D) Width = 30 ft; le	ength = 36 ft	
179) The perimeter of a trian centimeters longer than shortest side.	ngle is 45 centimeters. Fin n the shortest side, and th			179)
A) 12 cm, 14 cm, 19 c	cm	B) 14 cm, 16 cm, 22	l cm	
C) 12 cm, 14 cm, 21 c	cm	D) 5 cm, 10 cm, 12	cm	
each base of the trapez	orter base, and the area of oidal patio.	the patio is 8000 square	e feet. Find the length of	180)
A) 392 ft; 408 ft	B) 196 ft; 196 ft	C) 196 ft; 204 ft	D) 96 ft; 104 ft	
sum is 72 and the U.S. did each team win? A) U.S.: 23 medals; C	al Gymnastics competition mber of medals won by e won more than China wh China: 22 medals; Romani China: 25 medals; Romani	ach team are three cons to won more than Roma a: 21 medals	ecutive integers whose	181)
-	China: 24 medals; Romani			
-	China: 73 medals; Romani			
182) The sum of three conse	cutive integers is 468. Fir	id the numbers.		182)
A) 156, 157, 158	B) 155, 156, 157	C) 154, 155, 156	D) 154, 156, 158	,

A) 184, 186       B) 183, 185       C) 185, 187       D) 184, 368         184) The code to unlock a safety deposit box is three consecutive odd integers whose sum is 81. Find       184) the integers.       A) 25, 27, 29       B) 26, 28, 30       C) 27, 29, 31       D) 27, 28, 29         settiute the given values into the formula and solve for the unknown variable.       185)       A = r.       185)         185) d = rt: t = 2, d = 8       B) 6       C) 0.3       D) 10       186)         186) d = rt: t = 2, d = 8       B) 6       C) 0.3       D) 10       186)         187) V = 3A, r       V = 63, h = 9       D) 11       C) 9       D) 10       186)         187) V = 3A, r       V = 63, h = 9       D) 27, 25, 25       D) 7       188)         189) 1 = prt; I = 157.5, p = 250, r = 0.07       B) 2756.25       C) 27.5625       D) 9       188)         189) A = $\frac{1}{2^2}$ B) 6       C) 156       D) $\frac{1}{62^2}$ 189)         189       A = $\frac{1}{12^2}$ B) 6       C) 156       D) 14°F       190)         Use the formula $F = \frac{9}{5}C + 32$ to convert 10°C to degrees Fahrenheit.       D) 591.8°C       191)         Use the formula $C = \frac{5}{9}(F - 32)$ to convert 311°F to degrees Celsius.       D) 591.8°C       192)         A) 140.8°C       B) r = dt       C	370, find the house nu				
the integers. A) 25, 27, 29 B) 26, 28, 30 C) 27, 29, 31 D) 27, 28, 29 solute the given values into the formula and solve for the unknown variable. 185) d = rt; t = 2, d = 8 A) 4 B) 6 C) 0.3 D) 10 186) P = 2L + 2W; P = 22, W = 2 A) 20 B) 11 C) 9 D) 10 187) V = $\frac{1}{3}$ Ah; V = 63, h = 9 A) 72 B) 21 C) 567 D) 7 188) I = prt; I = 157.5, p = 250, r = 0.07 A) 0.9 B) 2756.25 C) 27.5625 D) 9 189) A = $\frac{1}{2}$ (B + b)h; A = 75, b = 12, B = 13 A) $\frac{1}{12^2}$ B) 6 C) 156 D) $\frac{1}{62^2}$ 190) Use the formula $F = \frac{9}{5}C + 32$ to convert 10°C to degrees Fahrenheit. A) 50°F B) 23.4°F C) 122°F D) -14°F 191) Use the formula $C = \frac{5}{9}(F - 32)$ to convert 311°F to degrees Celsius. B) 190.6°C C) 155°C D) 591.8°C r = the formula for the specified variable. 192) d = rt for r A) $\frac{d}{r} = \frac{1}{r}$ B) r = dt C) r = d - t D) $\frac{1}{r} = \frac{1}{rt}$ 193) I = Prt for P A) P = r - 1t B) $\frac{r-1}{1+t}$ C) $\frac{r-1}{1t}$ D) $\frac{1}{r} = \frac{1}{rt}$ 194) A = $\frac{1}{2}$ bh for b	A) 184, 186	B) 183, 185	C) 185, 187	D) 184, 368	
A) 25, 27, 29 B) 26, 28, 30 C) 27, 29, 31 D) 27, 28, 29 estitute the given values into the formula and solve for the unknown variable. 185) d = rt; t = 2, d = 8 A) 4 B) 6 C) 0.3 D) 10 186) P = 2L + 2W; P = 22, W = 2 A) 20 B) 11 C) 9 D) 10 187) V = $\frac{1}{3}$ Ah; V = 63, h = 9 A) 72 B) 21 C) 567 D) 7 188) 1 = prt; 1 = 157.5, p = 250, r = 0.07 A) 0.9 B) 2756.25 C) 27.5625 D) 9 189) A = $\frac{1}{2}$ (B + b)h; A = 75, b = 12, B = 13 A) $\frac{1}{12}$ B) 6 C) 156 D) $\frac{1}{62}$ 190) Use the formula F = $\frac{9}{5}$ C + 32 to convert 10°C to degrees Fahrenheit. B) 23.4°F C) -12.2°F D) -14°F 191) Use the formula C = $\frac{5}{9}$ (F - 32) to convert 311°F to degrees Celsius. A) 140.8°C D) 591.8°C Ve the formula for the specified variable. 192) A = $\frac{d}{t}$ B) 190.6°C C) r = d · t D) $\frac{t}{r}$ 193) A = $\frac{1}{2}$ bh $\frac{1}{r}$ for b A) P = r · 1t B) $\frac{r-1}{r+t}$ C) $\frac{r-1}{1t}$ D) $\frac{t}{r}$ 194) A = $\frac{1}{2}$ bh $\frac{1}{r}$ for b A = $\frac{1}{r}$ A = $\frac{1}{2}$ bh $\frac{1}{r}$ for b A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ A = $\frac{1}{r}$ A = $\frac{1}{r}$ bh $\frac{1}{r}$ for b A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ B) A = $\frac{1}{r}$ A = $\frac{1}{r}$ A = $\frac{1}{r}$ B) A = $\frac{1}{r}$	184) The code to unlock a s	afety deposit box is thre	e consecutive odd integer	s whose sum is 81. Find	184)
$\begin{aligned} \text{stitute the given values into the formula and solve for the unknown variable.} \\ 185) d = rt; t = 2, d = 8 \\ A) 4 & B) 6 & C) 0.3 & D) 10 \end{aligned} $ $\begin{aligned} 186) P = 2L + 2W; P = 22, W = 2 \\ A) 20 & B) 11 & C, 9 & D) 10 \end{aligned} $ $\begin{aligned} 186) P = 2L + 2W; P = 22, W = 2 \\ A) 20 & B) 11 & C, 9 & D) 10 \end{aligned} $ $\begin{aligned} 186) P = 2L + 2W; P = 22, W = 2 \\ A) 20 & B) 11 & C, 9 & D) 10 \end{aligned} $ $\begin{aligned} 187) V = \frac{1}{3}Ah; V = 63, h = 9 \\ A, 72 & B) 21 & C, 567 & D, 7 \end{aligned} $ $\begin{aligned} 188) I = prt; I = 157.5, p = 250, r = 0.07 \\ A) 0.9 & B, 2756.25 & C, 27.5625 & D, 9 \end{aligned} $ $\begin{aligned} 189) A = \frac{1}{2}(B + b)h; A = 75, b = 12, B = 13 \\ A, 0, \frac{1}{12}^2 & B, 6 & C, 156 & D, \frac{1}{62}^2 \end{aligned} $ $\begin{aligned} 190) Use the formula F = \frac{9}{5}C + 32 to convert 10°C to degrees Fahrenheit. \\ A) 50°F & F & B, 23.4°F & C, -12.2°F & D, -14°F \end{aligned} $ $\begin{aligned} 191) Use the formula C = \frac{5}{9}(F \cdot 32) to convert 311°F to degrees Celsius. \\ B) 190.6°C & C, 155°C & D, 591.8°C \end{aligned} $ $\begin{aligned} 192) d = rt & for r \\ A, 0 = \frac{d}{t} & B, r = dt & C, r = d - t & D, \frac{t}{r} & \frac{1}{t} \end{aligned} $ $\begin{aligned} 192) d = Prt & for P \\ A, P = r - It & B, \frac{r - 1}{1 + t} & C, \frac{r - 1}{1 + t} & D, \frac{1}{P} = \frac{1}{rt} \end{aligned} $ $\begin{aligned} 193) A = \frac{1}{2}bh & for b \end{aligned}$	the integers.				
$185) d = rt, t = 2, d = 8 $ $A) 4 B) 6 C) 0.3 D) 10$ $186) P = 2L + 2W; P = 22, W = 2 $ $A) 20 B) 11 C) 9 D) 10$ $186)$ $187) V = \frac{1}{3} Ah; V = 63, h = 9 $ $A) 72 B) 21 C) 567 D) 7$ $188) I = prt; I = 157.5, p = 250, r = 0.07 $ $A) 0.9 B) 2756.25 C) 27.5625 D) 9$ $189) A = \frac{1}{2} (B + b)h; A = 75, b = 12, B = 13 $ $A) \frac{1}{12} B) 6 C) 156 D) \frac{1}{62} $ $190) Use the formula F = \frac{9}{5} C + 32 to convert 10°C to degrees Fahrenheit. B) 23.4°F C) 12.2°F D) 14°F$ $191) Use the formula C = \frac{5}{9} (F - 32) to convert 31°F to degrees Celsius. B) 190.6°C C) 155°C D) 591.8°C$ $192) d = rt for r B) 10.6°C C) r = d - t D) \frac{t}{r} \frac{t}{d}$ $192) A = \frac{1}{r} \frac{d}{t} B) r = dt C) r = d - t D) \frac{t}{r} \frac{t}{d}$ $193) I = Prt for P B) r = dt C) r = d - t D) \frac{t}{r} \frac{t}{d}$ $194) A = \frac{1}{2} bh for b$ $195) A = \frac{1}{10} b for b$ $105) A = \frac{1}{10} b for b$ $105 A = 1$	A) 25, 27, 29	B) 26, 28, 30	C) 27, 29, 31	D) 27, 28, 29	
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A) 20 B) 11 C) 9 D) 10 187) $V = \frac{1}{3} A_{h;} V = 63, h = 9 A) 72$ B) 21 C) 567 D) 7 188) I = prt; I = 157.5, p = 250, r = 0.07 B) 2756.25 C) 27.5625 D) 9 189) $A = \frac{1}{2} (B + b)h; A = 75, b = 12, B = 13 A) \frac{1}{12} B) 6$ C) 156 D) $\frac{1}{62^2}$ 190) Use the formula $F = \frac{9}{5} C + 32$ to convert 10°C to degrees Fahrenheit. A) 50°F B $B > 23.4°F$ C) -12.2°F D) -14°F 191) Use the formula $C = \frac{5}{9} (F \cdot 32)$ to convert 311°F to degrees Celsius. A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C ve the formula for the specified variable. 192) $d = rt$ for r A) $\frac{d}{t}$ B) r = dt C) r = d \cdot t D) $\frac{1}{r} \frac{d}{t}$ 193) I = Prt for P A) $P = r \cdot 1t$ B) $\frac{r-1}{P} = \frac{r-1}{1+t}$ C) $\frac{r-1}{t}$ D) $\frac{1}{r} \frac{1}{rt}$ 194) $A = \frac{1}{2} bh$ for b to b	186) $P = 2L + 2W$ ; $P = 22$ .	W = 2			186)
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A) 72 B) 21 C) 567 D) 7 188) I = prt; I = 157.5, p = 250, r = 0.07 B) 2756.25 C) 27.5625 D) 9 189) $A = \frac{1}{2}(B + b)h; A = 75, b = 12, B = 13 A) \frac{1}{12^2}$ B) 6 C) 156 D) $\frac{1}{62^2}$ 190) $A = \frac{9}{5}C + 32$ to convert 10°C to degrees Fahrenheit. A) 50°F B) 23.4°F C) ·12.2°F D) ·14°F 191) Use the formula $C = \frac{5}{9}(F - 32)$ to convert 311°F to degrees Celsius. A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C 192) d = rt for r A) $\frac{d}{t}$ B) r = dt C) r = d - t D) $\frac{t}{r} = \frac{t}{d}$ 192) $A = \frac{1}{r}$ b) r = dt C) r = d - t D) $\frac{t}{r} = \frac{t}{r}$ 193) I = Prt for P A) $\frac{d}{r} = \frac{1}{r}$ b) $\frac{r-1}{r} = \frac{1}{1+t}$ C) $\frac{r-1}{r}$ D) $\frac{1}{r} = \frac{1}{rt}$ 194) $\frac{1}{A} = \frac{1}{2}bh$ for b	187) 1				187)
A) 72 B) 21 C) 567 D) 7 188) I = prt; I = 157.5, p = 250, r = 0.07 B) 2756.25 C) 27.5625 D) 9 189) $A = \frac{1}{2}(B + b)h; A = 75, b = 12, B = 13 A) \frac{1}{12^2}$ B) 6 C) 156 D) $\frac{1}{62^2}$ 190) $A = \frac{9}{5}C + 32$ to convert 10°C to degrees Fahrenheit. A) 50°F B) 23.4°F C) ·12.2°F D) ·14°F 191) Use the formula $C = \frac{5}{9}(F - 32)$ to convert 311°F to degrees Celsius. A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C 192) d = rt for r A) $\frac{d}{t}$ B) r = dt C) r = d - t D) $\frac{t}{r} = \frac{t}{d}$ 192) $A = \frac{1}{r}$ b) r = dt C) r = d - t D) $\frac{t}{r} = \frac{t}{r}$ 193) I = Prt for P A) $\frac{d}{r} = \frac{1}{r}$ b) $\frac{r-1}{r} = \frac{1}{1+t}$ C) $\frac{r-1}{r}$ D) $\frac{1}{r} = \frac{1}{rt}$ 194) $\frac{1}{A} = \frac{1}{2}bh$ for b	$V = \frac{3}{4h}$ $V = 62 h$	- 9			10/ )
$188) I = prt; I = 157.5, p = 250, r = 0.07 B) 2756.25 C) 27.5625 D) 9$ $189) A = \frac{1}{2}(B + b)h; A = 75, b = 12, B = 13 A) \frac{1}{12^2} B) 6 C) 156 D) \frac{1}{62^2}$ $190) A = \frac{9}{5}C + 32 \text{ to convert } 10^{\circ}C \text{ to degrees Fahrenheit.} B) 23.4^{\circ}F C) -12.2^{\circ}F D) -14^{\circ}F$ $191) Use the formula F = \frac{5}{9}(F - 32) \text{ to convert } 311^{\circ}F \text{ to degrees Celsius.} A) 140.8^{\circ}C B) 190.6^{\circ}C C) 155^{\circ}C D) 591.8^{\circ}C$ $192) d = rt  for r  B) r = dt  C) r = d \cdot t  D) \frac{t}{r} = \frac{1}{rt}$ $193) I = Prt  for P  B) r = dt  C) r = d \cdot t  D) r = \frac{t}{rt}$ $194) A = \frac{1}{2}bh  for b$ $194) A = \frac{1}{2}bh  for b$			C) 567	D) 7	
A) 0.9 B) 2756.25 C) 27.5625 D) 9 189) $A = \frac{1}{2}(B + b)h; A = 75, b = 12, B = 13$ A) $\frac{1}{12^2}$ B) 6 C) 156 D) $\frac{1}{62^2}$ 190) $\frac{1}{12^2}$ B) 6 C) 156 D) $\frac{1}{62^2}$ 190) Use the formula $F = \frac{9}{5}C + 32$ to convert 10°C to degrees Fahrenheit. A) 50°F B B) 23.4°F C) -12.2°F D) -14°F 191) Use the formula $C = \frac{5}{9}(F \cdot 32)$ to convert 311°F to degrees Celsius. A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C ve the formula for the specified variable. 192) $d = rt$ for r A) $\frac{d}{t}$ B) r = dt C) r = d - t D) $\frac{t}{r} = \frac{1}{t}$ 193) I = Prt for P A) $P = r \cdot 1t$ B) $\frac{r-1}{1+t}$ C) $r = d - t$ D) $\frac{1}{r}$ (193) 194) $A = \frac{1}{2}bh$ for b to be the set of					
$ \begin{array}{ll} 189) & = \frac{1}{2} \\ A = \frac{1}{2} \\ (B + b)h; A = 75, b = 12, B = 13 \\ A) & \frac{1}{12} \\ 190) \\ Use the formula F = \frac{9}{5} \\ C + 32 to convert 10^{\circ}C to degrees Fahrenheit. \\ A) 50^{\circ}F \\ B) 23.4^{\circ}F \\ C) -12.2^{\circ}F \\ D) -14^{\circ}F \\ 191) \\ Use the formula C = \frac{5}{9} \\ (F - 32) to convert 311^{\circ}F to degrees Celsius. \\ A) 140.8^{\circ}C \\ B) 190.6^{\circ}C \\ C) 155^{\circ}C \\ D) 591.8^{\circ}C \\ \end{array} $ $\begin{array}{l} 191) \\ 192) \\ d = rt \\ r = \\ \end{array} $ $\begin{array}{l} 192) \\ d = rt \\ r = \\ \end{array} $ $\begin{array}{l} 192) \\ d = rt \\ r = \\ \end{array} $ $\begin{array}{l} 192) \\ d = rt \\ r = \\ \end{array} $ $\begin{array}{l} 192) \\ d = rt \\ r = \\ \end{array} $ $\begin{array}{l} 192) \\ P = r \cdot It \\ B) \\ P = \frac{r - I}{1 + t} \\ P = \\ \end{array} $ $\begin{array}{l} 193) \\ P = \frac{1}{1t} \\ \end{array} $ $\begin{array}{l} 193) \\ P = \\ 194) \\ A = \\ \end{array} $ $\begin{array}{l} 194) \\ A = \\ 194) \\ A = \\ 194) \\ D \\ D$			0		188)
$12^{2}$ $62^{2}$ $190) \qquad \qquad$	A) 0.9	B) 2756.25	C) 27.5625	D) 9	
$12^{2}$ $62^{2}$ $190) \qquad \qquad$	189) <u>1</u>				189)
$12^{2}$ $62^{2}$ $190) \qquad \qquad$	$A = {}^{2}(B + b)h; A = 7$	75, b = 12, B = 13			
$12^{2}$ $62^{2}$ $190) \qquad \qquad$	A) 1	B) 6	C) 156	D) 1	
$190) \qquad \qquad$	122			62 <sup>2</sup>	
A) 50°F B) 23.4°F C) -12.2°F D) -14°F 191) Use the formula C = $\frac{5}{9}$ (F - 32) to convert 311°F to degrees Celsius. A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C ve the formula for the specified variable. 192) d = rt for r A) $\frac{d}{t}$ B) r = dt C) r = d - t D) $\frac{t}{r} = \frac{t}{d}$ 193) I = Prt for P A) P = r - It B) $\frac{r-I}{P} = \frac{r-I}{1+t}$ C) $\frac{r-1}{It}$ D) $\frac{I}{r} = \frac{1}{rt}$ 193) $\frac{1}{P} = \frac{1}{r} + \frac{1}{r} + \frac{1}{r} = \frac{1}{r}$ 194) $A = \frac{1}{2} bh for b$ 194)					100)
A) 50°F B) 23.4°F C) -12.2°F D) -14°F 191) Use the formula C = $\frac{5}{9}$ (F - 32) to convert 311°F to degrees Celsius. A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C ve the formula for the specified variable. 192) d = rt for r A) $\frac{d}{t}$ B) r = dt C) r = d - t D) $\frac{t}{r} = \frac{t}{d}$ 193) I = Prt for P A) P = r - It B) $\frac{r-1}{P} = \frac{r-1}{1+t}$ C) $\frac{r-1}{It}$ D) $\frac{1}{r} = \frac{1}{rt}$ 193) $\frac{1}{P} = \frac{1}{r} + \frac{1}{1+t}$ D) $\frac{1}{r} = \frac{1}{rt}$ 194) $\frac{1}{A} = \frac{1}{2} bh for b$ 194)	190) <u>-</u>				190)
191) $I = Prt for P = r - It B = \frac{r - I}{1 + t} C = \frac{r - 1}{It} D = \frac{r - 1}{It} D = \frac{r - 1}{It}$ 191) 191) 191) 191) 191) 191) 191) 191) 191) 191) 191) 191) 191) 191) 191) 191) 192) 192) 192) 192) 192) 192) 192) 192) 192) 192) 192) 193) 193) 193) 193) 193) 193) 193) 193) 193) 193) 194) 194) 194) 195)	Use the formula $F =$	C + 32 to convert 10°C t	o degrees Fahrenheit.	D) 140E	
Use the formula $C = (F \cdot 32)$ to convert 311°F to degrees Celsius. A) 140.8°C B) 190.6°C C) 155°C D) 591.8°C we the formula for the specified variable. 192) $d = rt$ for r A) $\frac{d}{t}$ B) $r = dt$ C) $r = d \cdot t$ D) $\frac{t}{r} = \frac{t}{d}$ 193) I = Prt for P A) P = r \cdot It B) $\frac{r-I}{1+t}$ C) $\frac{r-1}{It}$ D) $\frac{I}{rt}$ 193) P = $\frac{1}{rt}$ 194) $A = \frac{1}{2}bh$ for b 194) $A = \frac{1}{2}bh$ for b	A) 50°F	B) 23.4°F	C) -12.2°F	D) -14°F	
Use the formula $C = (F \cdot 32)$ to convert $311^{\circ}F$ to degrees Celsius. A) $140.8^{\circ}C$ B) $190.6^{\circ}C$ C) $155^{\circ}C$ D) $591.8^{\circ}C$ we the formula for the specified variable. 192) d = rt for r A) $\frac{d}{t}$ B) $r = dt$ C) $r = d \cdot t$ D) $\frac{t}{r = \frac{t}{d}}$ $193)$ I = Prt for P A) P = r \cdot It B) $\frac{r - I}{1 + t}$ C) $\frac{r - 1}{It}$ D) $\frac{I}{rt}$ $P = \frac{193}{rt}$ $P = \frac$	191)	5			191)
we the formula for the specified variable. $192) d = rt  \text{for } r  192)$ $A)  \frac{d}{t}  B) r = dt  C) r = d - t  D)  \frac{t}{r} = \frac{t}{d}$ $193) I = Prt  \text{for } P  193)$ $A) P = r - It  B)  \frac{r - I}{1 + t}  C)  \frac{r - 1}{It}  D)  \frac{I}{rt}  193)$ $P = \frac{1}{rt}$ $194)  A = \frac{1}{2}bh  \text{for } b$ $194)$	Use the formula C = $\frac{c}{c}$	) (F - 32) to convert 311°I	F to degrees Celsius.		
$192) d = rt  \text{for } r  192)$ $A)  \frac{d}{t}  B) r = dt  C) r = d - t  D)  \frac{t}{r} = \frac{t}{d}  192)$ $193) I = Prt  \text{for } P  B)  \frac{r - I}{1 + t}  C)  r = \frac{r - 1}{1t}  D)  \frac{I}{rt}  193)$ $P = \frac{194)}{r}  \frac{1}{2}bh  \text{for } b  194)$	A) 140.8°C	B) 190.6°C	C) 155°C	D) 591.8°C	
$192) d = rt  \text{for } r  192)$ $A)  \frac{d}{t}  B) r = dt  C) r = d - t  D)  \frac{t}{r} = \frac{t}{d}  192)$ $193) I = Prt  \text{for } P  B)  \frac{r - I}{1 + t}  C)  r = \frac{r - 1}{1t}  D)  \frac{I}{rt}  193)$ $P = \frac{194)}{r}  \frac{1}{2}bh  \text{for } b  194)$	ve the formula for the specif	fied variable.			
A) $\frac{d}{r} = \frac{d}{t}$ B) $r = dt$ C) $r = d - t$ D) $\frac{t}{r} = \frac{d}{dt}$ 193) $I = Prt$ for P A) $P = r - It$ B) $\frac{r - I}{1 + t}$ C) $\frac{r - 1}{It}$ D) $\frac{I}{rt}$ P = $\frac{193}{rt}$ 193) A = $\frac{1}{2}bh$ for b 194) $A = \frac{1}{2}bh$ for b	_				192)
193) I = Prt for P A) P = r - It B) $P = \frac{r - I}{1 + t}$ C) $\frac{r - 1}{It}$ D) $\frac{I}{rt}$ P = $\frac{193}{rt}$ 194) A = $\frac{1}{2}$ bh for b		B) $\mathbf{r} = \mathbf{d}\mathbf{t}$	C) r = d - t	D) <u>t</u>	
193) I = Prt for P A) P = r - It B) $P = \frac{r - I}{1 + t}$ C) $\frac{r - 1}{It}$ D) $\frac{I}{rt}$ P = $\frac{193}{rt}$ 194) A = $\frac{1}{2}$ bh for b	$\mathbf{r} = \mathbf{t}$			$r = \overline{d}$	
A) $P = r - It$ $P = \frac{r - I}{1 + t}$ $P = \frac{r - 1}{It}$ $P = \frac{r - 1}{It}$ $P = \frac{r - 1}{It}$ $P = \frac{1}{rt}$ 194) $A = \frac{1}{2}bh$ for b 194)					100
194) $A = \frac{1}{2}bh$ for b 194)		D) * 1	C) <b>*</b> 1		193)
194) $A = \frac{1}{2}bh$ for b 194)	A) $P = r - It$	B) $\frac{1-1}{1+t}$	C) $\frac{1-1}{It}$	$D) \frac{1}{rt}$	
		$\mathbf{P} = 1 \mathbf{P}$	$\mathbf{P} = \mathbf{r}$	$\mathbf{P} = \mathbf{T}$	
	194) 1				194)
	/				
	$A = \frac{1}{2}bh$ for b				

195) $\frac{1}{3}$				195)
$V = {}^{3}Ah  \text{for } A$ $A)  \frac{3V}{h}$ $A = {}^{3}$	B) $A = \frac{V}{3h}$	C) $\frac{3h}{V}$	D) $A = \frac{h}{3V}$	
196) $P = a + b + c$ for c A) $c = P - a - b$	B) c = a + b - P	C) c = P + a - b	D) c = P + a + b	196)
197) P = 2L + 2W for L A) L = P - W	B) $\frac{P-W}{2}$	C) $\frac{P-2W}{2}$	D) L = P - 2W	197)
198) A = P + PRT A) $\frac{P - A}{PR}$ for T T =	B) $\frac{A}{R}$	C) $\frac{PR}{T = A - P}$	D) $\frac{A-P}{PR}$	198)
199) $A = \frac{1}{2}h(B + b)$ for B				199)
$A = {}^{2}h(B + b) \text{ for } B$ $A) \qquad \underline{2A + bh}$ $B = h$	B) $\frac{A - bh}{h}$	C) $\frac{2A - bh}{h}$	D) B = 2A - bh	
200) $F = \frac{9}{5}C + 32$ for C				200)
$F = {}^{5}C + 32 \text{ for } C$ $A) \qquad \frac{9}{5}$ $C = {}^{5}(F - 32)$	B) $\frac{F-32}{9}$	C) $\frac{5}{F-32}$	D) $C = \frac{\frac{5}{9}}{(F - 32)}$	
201) S = $2\pi rh + 2\pi r^2$ for h A) h = S - r	B) $\frac{S}{2\pi r} - 1$	C) h = 2π(S - r)	D) $h = \frac{S - 2\pi r^2}{2\pi r}$	201)
Solve.				
	ening for relaxation and h length of the garden is 6 nat is the width of the gar	meters and 28 meters of f	-	202)
A) 168 m	B) 8 m	C) 4.67 m	D) 16 m	
203) Ted drove to his grandpa 443 miles and it took him whole number)	arents' house for a holiday 15 hours. How fast was '			203)
A) 30 mph	B) 34 mph	C) 66 mph	D) 665 mph	
for hemming. If the table	cut the fabric circle with a has a diameter of 34 inch	a 4 inch larger diameter th	nan the table to allow	204)
3.14 for π. Round to 2 de A) 4534.16 sq in.	cimal places.) B) 1384.74 sq in.	C) 4069.44 sq in.	D) 1133.54 sq in.	

-	lollar.)		D) #1500	
A) \$1274	B) \$15	C) \$127,400	D) \$1538	
206) How long would it tak	e to drive 350 kilometers if	your average rate of spee	ed was 70 kilometers	206)
per hour?				
A) 42 hr	B) 245 hr	C) 6 hr	D) 5 hr	
207) Nathan invested his \$6 Use the formula I = Prt	000 poker winnings in a 5 to find the amount of inte	-		207)
A) \$7,500	B) \$300	C) \$1,500	D) \$6,300	
208) You have a cylindrical many full cans of soup 3.14 as an approximatio	will fit into the pot if each		-	208)
A) 26 cans of soup		C) 79 cans of soup	D) 80 cans of soup	
209)		$V = \frac{4}{3}\pi r^3.$		209)
-	e with radius r is given by	the formula F	ind the volume of a	
-	eters. Use 3.14 for the valu			
A) 85.33 sq m	B) 66.99 sq m	C) 803.85 sq m	D) 267.95 sq m	
210) Find the height of a rig 8 feet.	ht circular cylinder whose	volume is 576 $\pi$ cubic fee	t and whose radius is	210)
A) 72 ft	B) 9 ft	C) 8 ft	D) 81 ft	
. Round all amounts to one	e decimal place.			
211) What number is 80% or	-			211)
A) 80	B) 8	C) 800	D) 8000	
	2010			
212) 93 is 10% of what num	Der?			212)
212) 93 is 10% of what num A) 930	B) 93	C) 9.3	D) 9300	212)
A) 930	B) 93	C) 9.3	D) 9300	212) 213)
A) 930	B) 93	C) 9.3 C) 20	D) 9300 D) 200	
A) 930 213) 40% of what number is A) 32	B) 93 80? B) 2000			
A) 930 213) 40% of what number is A) 32	B) 93 80? B) 2000			213)
A) 930 213) 40% of what number is A) 32 214) 3 is what percent of 123 A) 2.5%	B) 93 80? B) 2000 B) 400%	C) 20	D) 200	213)
213) 40% of what number is A) 32 214) 3 is what percent of 123	B) 93 80? B) 2000 B) 400%	C) 20	D) 200	21 21

The circle graph below shows the number of pizzas consumed by college students in a typical month. Use the graph to answer the question.

5-6, 189 More than 7, 5% 0, 2%	3-4 34% 1-2 41%			
216) What percent of college A) 34%	students consume more B) 2%	than 7 pizzas in a typical C) 5%	month? D) 18%	216)
217) If State University has ap consume 5-6 pizzas in a	1 5	lents, about how many w	rould you expect to	217)
A) 9520 students	B) 504 students	C) 5040 students	D) 952 students	
if necessary.)	shop went up 30% in 5 y mber of ice cream cones	years. If 37,000 ice cream sold 5 years ago. (Round	cones were sold in the to the nearest integer,	e. 218)
A) 25,900 ice cream co C) 28,462 ice cream co		B) 11,100 ice cream c D) 123,333 ice cream		
219) Attendance this year at t year's homecoming footh to the nearest integer, if r A) 681,600 people	oall game attendance wa	game is 142% of what it s 48,000, what is this year C) 338 people	-	219)
220) Of the 150 students in an percent of the algebra stupercent, if necessary.)	0	received an F on the mid the exam? (Round to the r		220)
A) 6.7%	B) 150%	C) 0.7%	D) 1500%	
221) 8% of students at a unive about how many studen A) 56,000 students	2	If 7000 students are enro C) 56 students	lled at the university, D) 560 students	221)
222) The population of a town population 5 years ago. I number if necessary.	2	s represents an increase c ne town 5 years ago. Rour		222)
A) 19,444	B) 43,750	C) 7000	D) 28,000	
223) Students at Maple Schoo			nulate $$200^{\circ}$ for a club	223)
trip. What percent of the A) 90%	ir goal has been reached B) 0.111%	? C) 9%	D) 11.1%	
224) Jeans are on sale at the lo	ocal department store for	25% off. If the jeans orig	inally cost \$43, find the	224)

sale price.

A) \$32.25	B) \$10.75	C) \$41.93	D) \$53.75	
225) The local clothing stor the selling price of a pa A) \$202.00	· ·	at it pays to the clothing m much did the clothing sto C) \$67.33	0	225)
			,	22()
226) A store is advertising regularly sells for \$27		ing in the store. Find the d	liscount of a watch that	226)
A) \$9.45	B) \$94.50	C) \$175.50	D) \$260.55	
227) A store is advertising regularly sells for <sup>\$30</sup>		ing in the store. Find the d	liscount of a sofa that	227)
A) \$2940.00	B) \$600.00	C) \$60.00	D) \$2400.00	
228) A store is advertising a released DVD collector	a <sup>25%</sup> off sale on all ne <sup>-</sup> rs set that regularly sell		sale price of a newly	228)
A) \$39.98	B) \$10.25	C) \$1.03	D) \$30.75	
229) An automobile dealers the car was \$33,600.00,		e price of a used sports ca	r by 13%. If the price of	229)
A) \$4368.00	B) \$436.80	C) \$29,232.00	D) \$33,163.20	
230) A store is advertising regularly sells for <sup>\$24</sup>		ing in the store. Find the s	ale price of a watch that	230)
A) \$2292.00	B) \$10.80	C) \$108.00	D) \$132.00	
231) Due to a lack of fundir vear to 5000 this vear.	ng, the number of stude Find the percent decrea	, ,	e went from 9000 last	231)
A) 80%	B) 55.6%	C) 180%	D) 44.4%	
232) A company increased increase in employees	1	oyees from 540 to 575. Wha	at was the percent	232)
A) 51.6%	B) 6.1%	C) 6.5%	D) 93.9%	
233) The number of video s decrease.	tores in a region recent	y decreased from 102 to 82	2. Find the percent	233)
A) 80.4%	B) 19.6%	C) 24.4%	D) 410%	
234) Ming got a 11% raise i did she make last year		ear. This year she is earnin	g \$97,680. How much	234)
A) \$88,000	B) \$8880	C) \$9680	D) \$1,074,480	
235) Because of budget cuth \$58,000 before the pay	oacks, MaryAnn was re cut, find her salary afte		rut. If she earned	235)
A) \$57,936.20	B) \$57,362	C) \$51,620	D) \$5162	
236) How much pure acid s 80% acid solution?	should be mixed with 2	gallons of a 50% acid solu	tion in order to get an	236)
A) 1 gal	B) 8 gal	C) 3 gal	D) 5 gal	
237) The owners of a candy	store want to sell, for \$	6 per pound, a mixture of	chocolate-covered	raisi ns,

which usually sells for \$3 per pound, and chocolate -covered macada mia nuts, which usually sells for \$8 per pound. They have a 70-pound barrel of the raisins. How many pounds of the nuts should they mix with the barrel of raisins so that they hit their target value of \$6 per					
-					
238)	A) 98 lb A chemist needs 110 millil Find how many milliliters		-		238)
	A) 20 ml of 76%; 90 ml o C) 100 ml of 76%; 10 ml	of 98%	B) 90 ml of 76%; 20 ml o D) 10 ml of 76%; 100 ml	of 98%	
239)	The manager of a coffee sh that sells for \$14 per pound mixture that will sell for \$8 A) 45 pounds	d. The manager wishes to	mix 30 pounds of the \$14	4 coffee to get a	239)

240) At a gourmet nut shop, nuts are sold in bulk. Cashews sell for \$1.40 per pound and macadamia nuts sell

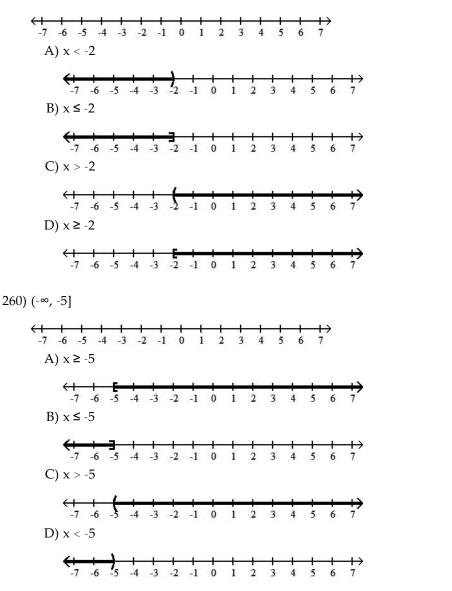
for <sup>\$8.55</sup>	240)				
per					_
pound.					
Lee					
wishes to					
purchase					
5 pounds					
of mixed					
nuts by					
mixing					
3.5					
pounds					
of					
cashews					
and 1.5					
pounds					
of					
macada					
mia nuts. What					
will be					
the price					
per					
pound of					
the					
mixture?					
	A) \$3.55	B) \$32.03	C) \$6.41	D) \$17.73	
		nake of car needs to conta 20% antifreeze. How mar reeze to get the desired str	ny liters of this solution m		241)
	A) 15 L	B) 10.0 L	C) 12 L	D) 7.5 L	
Solve.					
	A motorcycle traveling a	-		-	242)
		rt. How far from the start		nicles?	
	A) $\frac{1}{7^2}$ mi	B) $\frac{1}{56^4}$ mi	C) 225 mi	D) $\frac{1}{2}$	
	$7^2$ mi	$56^4$ mi		hicles? D) $\frac{1}{2}$ 4 mi	
	Linda and Dave leave sin Linda bikes at 7 miles per are 30 miles apart from e	hour and Dave bikes at 8	•••••••••••••••••••••••••••••••••••••••	n opposite directions. ng will it be until they	243)
	A) 30 hr	B) 2 hr	C) 1	D) 15	
		)	-/	28	
	,		2 hr	20 hr	
	,		C) $\frac{1}{2}$ hr	D) $\frac{15}{28}$ hr	
	Jeff starts driving at 75 m per hour. They drive in o	pposite directions, and La	ne point that Lauren start nuren has a half-hour hea	s driving at 70 miles	244)
	Jeff starts driving at 75 m per hour. They drive in o will they be able to talk o	pposite directions, and La n their cell phones that ha	ne point that Lauren start nuren has a half-hour hea nve a 330-mile range?	s driving at 70 miles d start. How long	244)
	Jeff starts driving at 75 m per hour. They drive in o will they be able to talk o A) $\frac{1}{29}$	pposite directions, and La n their cell phones that ha B) $\frac{79}{290}$	the point that Lauren start nuren has a half-hour head twe a 330-mile range? C) $\frac{15}{20}$	s driving at 70 miles d start. How long	244)
	Jeff starts driving at 75 m per hour. They drive in o will they be able to talk o	pposite directions, and La	ne point that Lauren start nuren has a half-hour hea	s driving at 70 miles	244)

			m lake paddling toward e es at 7 miles per hour. Hov		245)
	A) 16 hr	B) 9 hr	C) $\frac{7}{1^8}$ hr	D) $\frac{5}{2^{11}}$ hr	
	the same route but di California if the roun	1	er hour to California. On t ow many miles did they d	rive on the way to	246)
	A) $\frac{5}{5^{13}}$ mi	B) 4200 mi	C) $\frac{2}{10}$	D) $\frac{1}{12}$	
	$5^{13}$ mi		C) $\frac{2}{646^{13}}$ mi	323 <sup>13</sup> mi	
	hiked 37 miles, spend speed on level groun	ling 2 hours on level grou d.	faster than he can on uph Ind and 5 hours on uphill t	errain. Find his average	247)
	A) <u>2</u>	B) <u>6</u>	C) <u>3</u>	D) <u>3</u>	
	$5^7$ mph	B) $\frac{6}{7^7}$ mph	C) $\frac{3}{4^7}$ mph	D) $\frac{3}{7^7}$ mph	
Sol	ve the problem.				
	-	on of nickels and dimes to	deposit in the bank. She h	as five fewer nickels	248)
			many dimes did she depo		,
	A) 100 dimes	B) 110 dimes	C) 105 dimes	D) 205 dimes	
	249) A convenience store	employee is counting \$10	and \$20 bills. If there are s	ix times as many	249)
			2400, find the number of ea		
	A) 180 \$20 bills; 6 \$		B) 30 \$20 bills; 6 \$10		
	C) 30 \$20 bills; 180		D) 180 \$20 bills; 30 \$		
	250) Devon purchased tick	kets to an air show for 4 a	dults and 2 children. The t	otal cost was $\frac{68}{5}$ . The	250)
		; was $^{\$5}$ less than the cos	t of an adult's ticket. Find		
	A) adult's ticket: \$1	15; child's ticket: \$10	B) adult's ticket: \$13	3; child's ticket: \$8	
	C) adult's ticket: \$2	12; child's ticket: \$7	D) adult's ticket: \$14	4; child's ticket: \$9	
		•	z ordered 120 pieces of jew	-	251)
			at \$15 each. She wrote a cl	1 2	
	-	-	necklaces did Rosaria pui		
	A) 45 bracelets and C) 60 bracelets and		B) 50 bracelets and D) 55 bracelets and		
	252) Jon throws all his nic	kels and dimes in a jar at	home each day. He counte	d all his coins one day	252)
	•	d collected \$29.00. If there	e were three times as many		,
	A) 116 dimes; 348		B) 348 dimes; 345 n	ickels	
	C) 348 dimes; 116 r		D) 116 dimes; 3 nich		
Sol	ve.				
	interest, and the rem	ainder in a mutual fund th	ertificate of deposit that pa nat paid 11% annual simpl Kevin invest in the mutua C) \$5000	e interest. If his total	253)

	<ul> <li>254) How can \$56,000 be invested, part at 4% annual simple interest and the remainder at 10% annual simple interest, so that the interest earned by the two accounts is equal at the end of the year?</li> <li>A) \$30,000 invested at 4%; \$26,000 invested at 10%</li> <li>B) \$16,000 invested at 4%; \$40,000 invested at 10%</li> <li>C) \$26,000 invested at 4%; \$30,000 invested at 10%</li> </ul>							
255)	, .	l at 4%; \$16,000 invested m of money at 3% annua		ested three times that sum	255)			
	255) Melissa invested a sum of money at 3% annual simple interest. She invested three times that sum at 5% annual simple interest. If her total yearly interest from both investments was \$3600, how much was invested at 3%?							
	A) \$45,000	B) \$15,000	C) \$135,000	D) \$20,000				
,	256) If \$2000 is invested at 10% simple annual interest, how much should be invested at 12% annual simple interest so that the total yearly income from both investments is \$5000?							
	A) \$47,600	B) \$4000	C) \$40,000	D) \$4760				

# Graph the set of numbers given in interval notation. Then write an inequality statement in x describing the numbers graphed. $257) (-6, \infty)$ 257) \_\_\_\_

257) (-6, ∞)	257)
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
(+ + + + + + + + + + + + + + + + + + +	
-7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7	
258) [1, ∞)	258)
	258)
258) $[1, \infty)$ (+ + + + + + + + + + + + + + + + + + +	258)
258) $[1, \infty)$ (1, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, -7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7, -7, -7, -7, -7, -7, -7, -7, -7, -7,	258)
258) $[1, \infty)$ (++++++++++++++++++++++++++++++++++++	258)

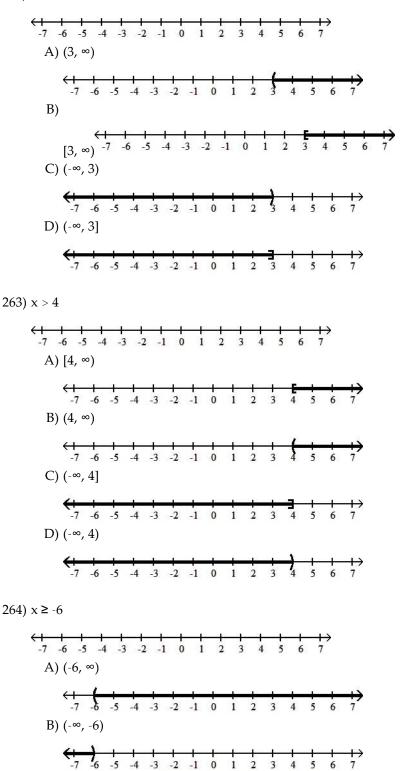


Graph the inequality on a number line. Then write the solution in interval notation. 261) x < 2

260) \_\_\_\_\_

C) [-6, ∞)

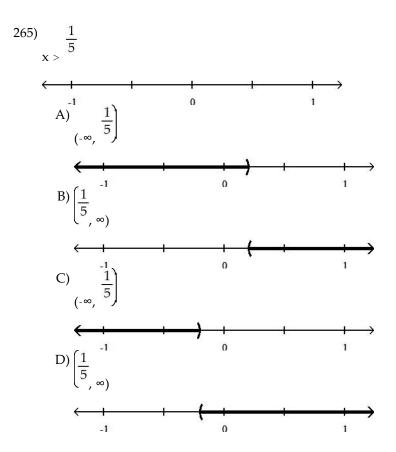
D) (-∞, -6]

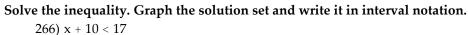


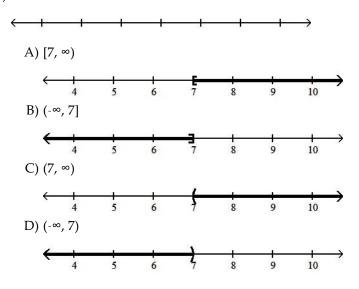
-7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7

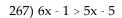
-7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7

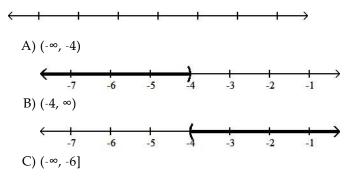
264) \_\_\_\_\_





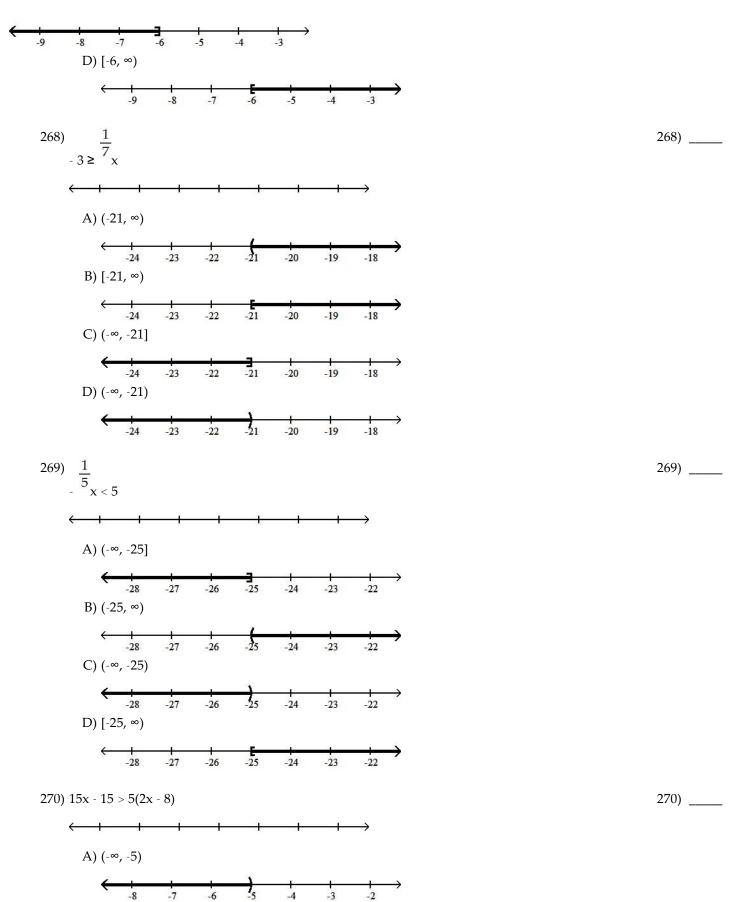




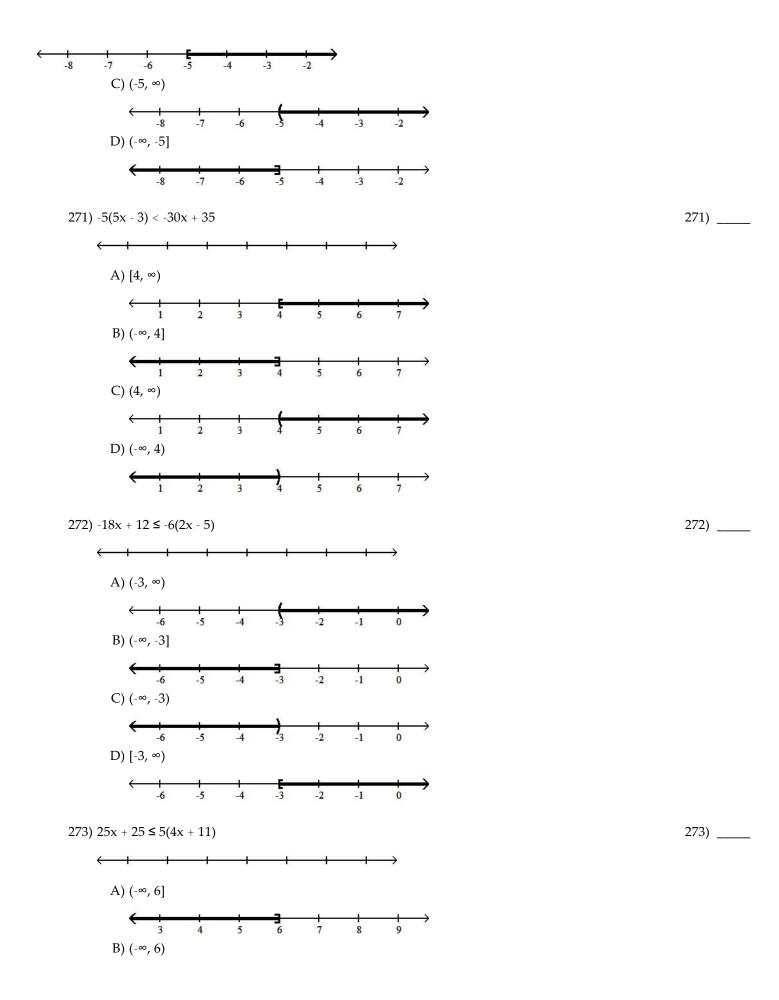


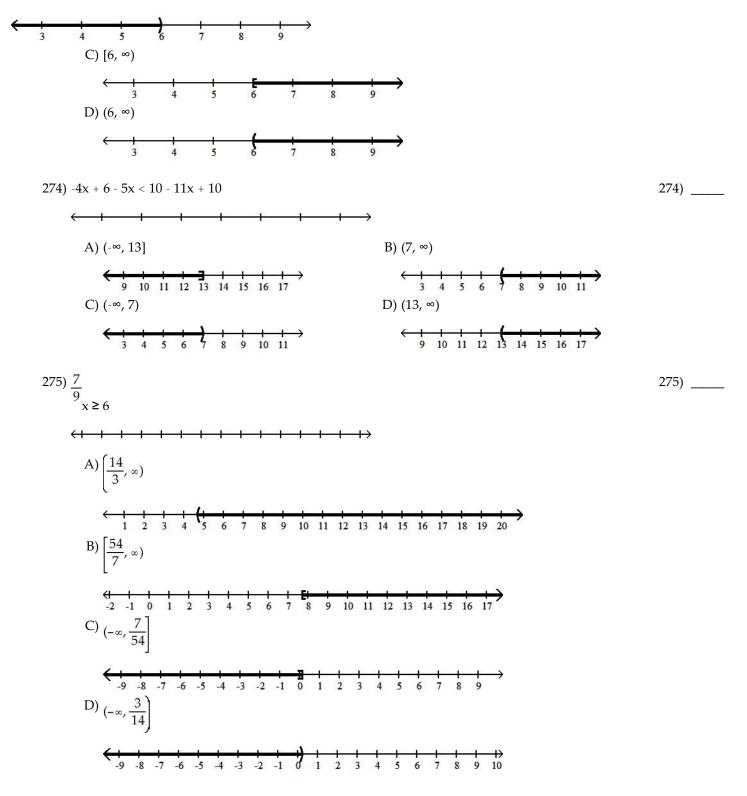
267) \_\_\_\_\_

266) \_\_\_\_

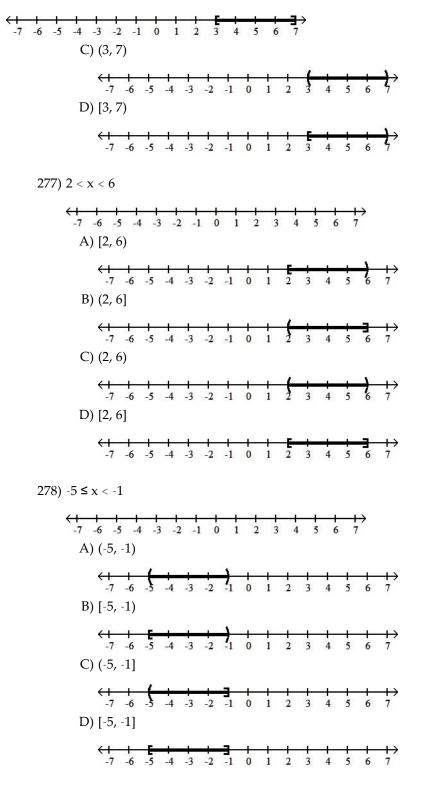


B) [-5, ∞)





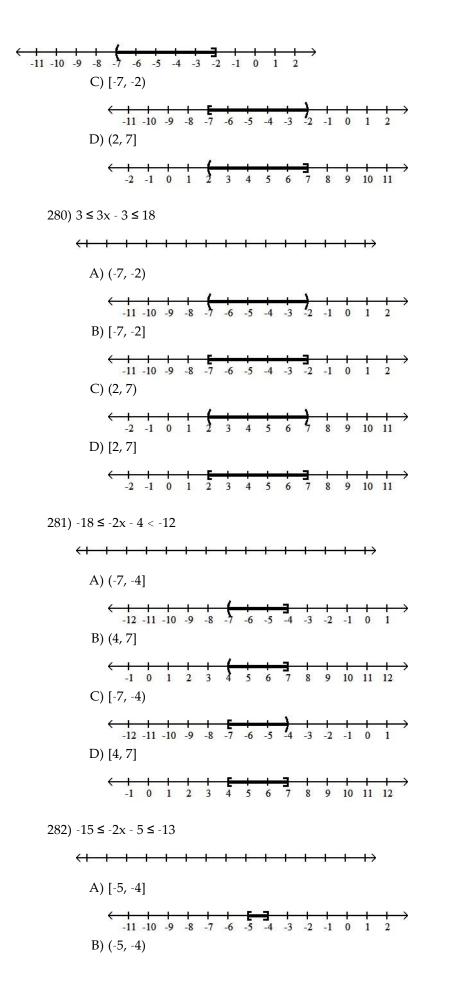
Graph the inequality on a number line. Then write the solution in interval notation. 276)  $3 \le x \le 7$ 



Solve the inequality. Graph the solution set and write it in interval notation. 279)  $4 < 2x \le 14$ 

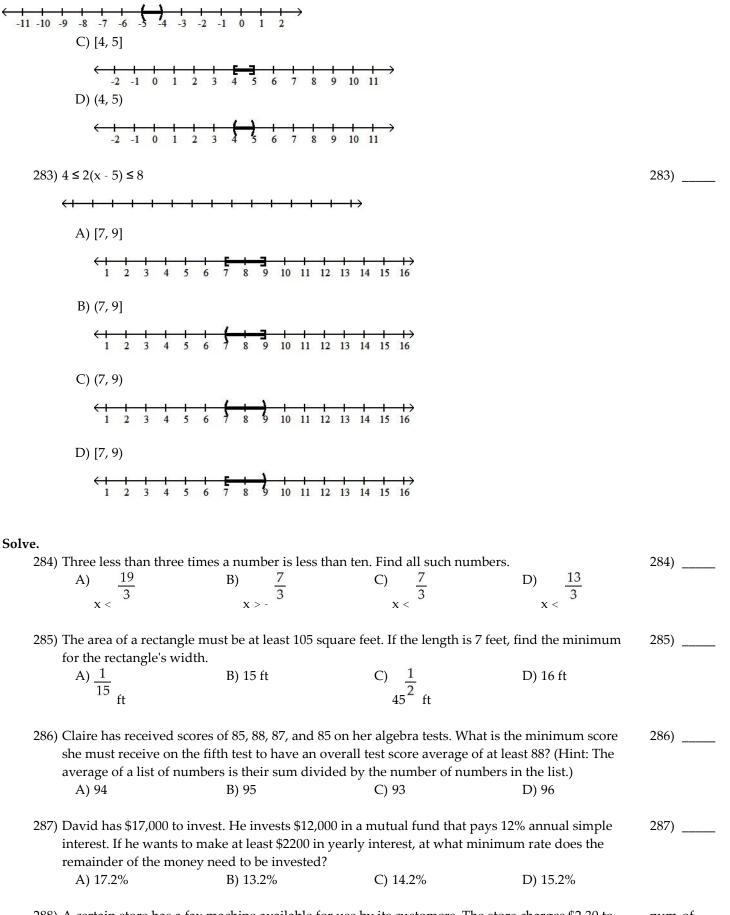
277) \_\_\_\_\_

278) \_\_\_\_\_



280) \_\_\_\_\_

281) \_\_\_\_\_



<sup>288)</sup> A certain store has a fax machine available for use by its customers. The store charges \$2.30 to num of send the first page and \$0.40 for each subsequent page. Use an inequality to find the maximum ber pages

A) at most 17 pages	B) at most 12 pages
C) at most 57 pages	D) at most 3 pages

289) An archer has \$178 to spend on a new archery set. A certain set containing a bow and three arrows costs \$52. With the purchase of this set, he can purchase additional arrows for \$9 per arrow. Use an inequality to find the maximum number of arrows he could obtain, including those with the set, for his \$178.

289) \_\_

A) <u>89</u>	B) at most 14 arrows
at most <sup>26</sup> arrows	
C) at most 17 arrows	D) $\frac{178}{2}$
	at most <sup>9</sup> arrows

290) A certain vehicle has a weight limit for all passengers and cargo of 1262 pounds. The four passengers in the vehicle weigh an average of 180 pounds. Use an inequality to find the maximum weight of the cargo that the vehicle can handle.
 A) at most 542 lb

	631	
at most	90	lb

291) Professor Chang will give a student in her algebra class an A if his or her final score is at least 93, 291) \_\_\_\_\_\_\_\_ a B if the score is between 84 and 92, inclusive, and a C if the score is between 75 and 83, inclusive. Any student with a score between 66 and 74, inclusive, will receive a D, and anyone with a score at or below 65 will fail with a grade of an F. Letting x represent a student's grade, write a series of five inequalities corresponding to the possible grades given in the class

A) x ≥ 93	А	B) x > 93	А	C) x ≥ 93	А	D) x ≥ 93	А
$84 \ge x \ge 92$	В	$84 \le x \le 92$	В	$84 \le x < 92$	В	$84 \le x \le 92$	В
$75 \ge x \ge 83$	С	$75 \le x \le 83$	С	$75 \le x < 83$	С	$75 \le x \le 83$	С
$66 \ge x \ge 74$	D	$66 \leq x \leq 74$	D	$66 \le x < 74$	D	$66 \leq x \leq 74$	D
x ≤ 65	F	x < 65	F	x ≤ 65	F	x ≤ 65	F

A)	64	B) <u>64</u>	C) <u>9</u>	D) <u>20</u>	64
-	3	3	4	3	3
- 4 <	< x < 5	<pre>&lt; x &lt; - 4</pre>	- <sup>-</sup> < x < 12	< x	<

Fill in the blank with one of the words or phrases listed below.

like termsnumerical coefficientequivalent equationsformulareversedunlike termsthe sameno solution		linear equation in one variable linear inequality in one variable compound inequalities all real numbers	
293) Terms with the	e same variables raised to	o exactly the same powers are called	293)
A) unlike ter	rms	B) equivalent equations	
C) compour	nd inequalities	D) like terms	
294) If terms are no	t like terms, they are —		294)
A) like terms		B) unlike terms	
C) compour	nd inequalities	D) equivalent equations	

$^{295)}$ A(n) can b			·	295) _
A) linear inequality in	n one variable	B) linear equation		
C) formula		D) numerical coef	ncient	
<sup>296)</sup> A(n) can b	e written in the form	ax + b < c (or $> < >$ )		296)
A) linear inequality in	n one variable	B) formula		
C) numerical coefficie		D) linear equation	n in one variable	
		2) mear equator		
297) Inequalities containing	two inequality symbo	ls are called		297) _
A) like terms		B) compound ine	qualities	
C) linear inequality in	n one variable	D) equivalent equ	ations	
<sup>298)</sup> An equation that descri	has a linear relations	hin among quantities is a		298)
A) numerical coefficie	bes a known relations	B) linear inequali		/ -
C) linear equation in		D) formula	ty in one variable	
C) mear equation m	one variable	D) Iomula		
<sup>299)</sup> The of a te	erm is its numerical fa	ctor.		299) _
A) like terms		B) numerical coef	ficient	
C) compound inequa	lities	D) formula		
300) Equations that have the	come colution and col	lad		300)
<sup>300)</sup> Equations that have the A) numerical coefficie	same solution are cal	B) equivalent equ	ations	-/-
C) like terms	ent	D) compound ine		
C) like terilis		D) compound me	quanties	
301) The solution(s) to the equation	The quation $x + 5 = x + 5$ is	/are		301)
A) no solution	•	B) like terms		
C) the same		D) all real number	rs	
$^{302)}$ The solution(s) to the ec	x + 5 - x + 4 is	laro		302)
A) unlike terms	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	B) all real number	re	, <u>-</u>
C) reversed		D) no solution	15	
303) If both sides of an inequ			sitive number, the	303)
direction of the inequali	ity symbol is			
A) all real numbers		B) the same		
C) no solution		D) reversed		
304) If both sides of an inequ	ality are multiplied b	y the same negative numb	per, the direction of the	304)
inequality symbol is —				
A) the same		B) all real number	rs	
C) no solution		D) reversed		
olify the expression.				
305) 7y + 8 - 2y + 9				305)
A) 9y + 17	B) 22y	C) 5y + 17	D) 5y - 1	/ -
		· •	-	
$20() 2 2 \dots = 1 + 4 2 \dots = 7 4$				306)
$306) \ 2.3x + 5.1 + 4.2x - 7.4$				

	307) 2(x - 3) - 4(3x - 6) A) -10x + 18	B) -14x + 30	C) -10x - 9	D) 10x + 18	307)
	308) 8 + 3(5y - 4) A) 15y - 20	B) 15y - 4	C) 15y + 32	D) 15y + 4	308)
So	lve the equation. $309)  \frac{1}{5} \\ -  x = -8$				309)
	- x = -8 A) 40	B) -14	C) -13	D) 1	
	310) 5(2n - 2) = 9(n + 4) A) 26	B) -26	C) 31	D) 46	310)
	311) 7y - 6 + y = -(y + 9y) A) 0	B) $\frac{1}{3}$	C) $\frac{1}{3}$	D) no solution	311)
	312) - 7z + 7 + 5z = -3z + 12 A) -7	B) 5	C) 12	D) -12	312)
	313) $\frac{4(x-4)}{5}$				313)
	= x - 7 A) 39	B) 19	C) -9	D) -19	
	314) $\frac{1}{2} + \frac{15}{2} = x - 6$				314)
	A) 1 $= x + 6$	B) 14	C) -7	D) 7	
	315) -0.3(x - 3) + x = 0.5(9 - x) A) 3	B) 2	C) 4.5	D) 18	315)
	316) $-3(4x + 2) - 2 = -4(x + 1) + 4$ A) $\frac{1}{11}$	$ \begin{array}{c} 3x \\ B)  \underline{\frac{4}{13}} \end{array} $	C) $\frac{4}{11}$	D) $\frac{4}{11}$	316)
	317) - 3(x - 5) = x + 7 - 4x A) - <b></b>	B) 0	C) <a></a>	D) no solution	317)
	318) Find the value of x if y = - A) x = -36	21, m = 2 and b = -3 in the B) x = 36	e formula y = mx + b. C) x = -9	D) x = 9	318)
So	lve the equation for the indicate $319$ ) I = Prt for t	d variable.			319)
	$\begin{array}{c} A) \\ t = \end{array} \begin{array}{c} P-1 \\ Ir \\ Ir \end{array}$	B) $t = \frac{P - I}{1 + r}$	C) t = P - Ir	D) $\frac{I}{r}$	
	320) 2x - 3y = 13 for y A)	у	=		320)

B)	у	C)	у	D)	у
	=		=		=
	2x + 13		2x + 13		2x - 13
	3		-3		3

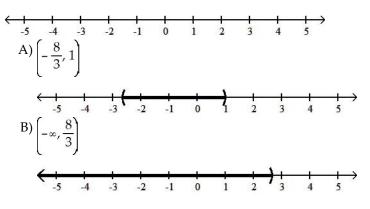
Solve the inequality. Graph the solution set and write it in interval notation.

321) 6x - 2 ≥ 5x - 8

 $\frac{2x-13}{-3}$ 

 $\rightarrow$ A) (-10, ∞) -17 -16 -15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 B) [-6, ∞) -13 -12 -11 -10 -9 -8 -7 -6 -2 -1 0 -5 -4 -3 C) (-∞, -6] -13 -12 -11 -10 -9 -8 -7 -3 -2 -1 0 1 -6 -5 -4 D) (-6, ∞) -6 -5 -4 -3 -2 -1 0 322) x + 4 > 3x - 4-9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 A) (-∞, 4) -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3  $\begin{array}{c} 1 \\ 8 \\ 9 \end{array}$ 7 4 5 6 B) (4, ∞) -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 C) (-∞, -4) -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 D) (-4, ∞) -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8

323) -5 < 3x - 2 < 6

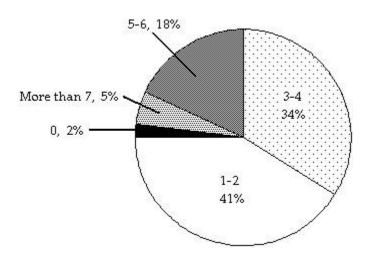


321) \_\_\_\_\_

322) \_\_\_\_\_

C	C) (- 1, ∞)												
				1	L.	21							
E	$(-1,\frac{8}{3})^{-5}$	-3	-2	-1	0	i	2	3	4	5			
	-5 -4	-3	-2	-	0	1	2	<b>)</b>   3	4	5	<b>&gt;</b>		
324) <u>3(2</u>	$\frac{(x-1)}{5} > 3$												324)
	5 -4 -3 $A \left(3, \infty\right)$	-2	-1	0	1	2	3	4	5				
E	$\begin{array}{c c} & & & \\ & & -5 & -4 \\ \hline & & & \\ 3) \left(-\infty, 3\right) \end{array}$	-3	-2	-1	0	1	2	3	4	5	•		
C	$\underbrace{+}_{-5} \underbrace{+}_{-5} \underbrace{+}_{-4}$	-3	-2	-1	0	1	2	3	4	5	<b>&gt;</b>		
E	$\underbrace{+}_{-5} \underbrace{+}_{-4}$	-3	-2	-1	0	1	2	3	4	5	<b>&gt;</b>		
	-5 -4	-5	-2	-1	0	1	2	3	4	5			
Solve.													
	umber incre A) 7	ased	by th	ree- B)		ths o	f the	num		s 21. H C) 3	Find the numbe	er. D) 12	325)
326) The	house num	bers o	of tw	o adj	acen	t hor	nes a	re tw	70 CO1	nsecu	tive even num	bers. If their sum is	326)
	, find the ho () 192, 194	use n	umbe		191,	193			C	2) 192	2, 384	D) 193, 195	
hav	•	e capa	acity,	in pa	arkin	ig spa	aces,	of th	eir o	igina	l parking gara	l parking garage will ge. If the sum of these	327)
	x) 5 3 1 space C) 3 3 1 space		-		-		_				1 spaces, 8 6 2 1 spaces, 9 6 2	-	
three	ee times the	origir	nal ar	noun ivest	nt in	anotł ts wa	ner st	tock 1	that e ind o	arneo ut ho		o return. She invested o return. If her total ovested at 3%? D) \$20,000	328)
oth	-		-	les p		our, ł			will i	2	them to be 31	miles per hour and the 80 miles apart? D) 2.5 hr	329)
The circle ere	nh holow cl	0000	tha •	1	or o	f niz	726 6	oner	mad	hy a	allaga studant	s in a typical month Use	the graph to

The circle graph below shows the number of pizzas consumed by college students in a typical month. Use the graph to answer the question.



330)	330) If State University has approximately 28,000 students, about how many would you expect to consume 5-6 pizzas in a typical month?				330)
	A) 9520 students	B) 5040 students	C) 504 students	D) 952 students	
Solve. Round to one decimal place when necessary.					
331) The number 90 is what percent of 48?					331)
	A) 1.9%	B) 53.3%	C) 187.5%	D) 18.8%	
332) Due to a lack of funding, the number of students enrolled at City College went from 9000 last year to 3000 this year. Find the percent decrease in enrollment.					332)
	A) 200%	B) 33.3%	C) 66.7%	D) 300%	

1) C 2) C 3) C 4) A 5) C 6) D 7) A 8) B 9) B 10) B 11) A 12) A 13) B 14) A 15) D 16) B 17) A 18) D 19) C 20) B 21) B 22) B 23) D 24) D 25) C 26) C 27) A 28) B 29) B 30) D 31) A 32) C 33) A 34) A 35) B 36) B 37) D 38) C 39) D 40) B 41) D 42) A 43) D 44) B 45) B 46) C 47) A 48) D 49) C 50) D 51) B

52) A 53) D 54) C 55) C 56) A 57) C 58) C 59) D 60) A 61) B 62) D 63) B 64) C 65) D 66) A 67) A 68) B 69) A 70) B 71) A 72) B 73) C 74) D 75) D 76) B 77) A 78) A 79) D 80) C 81) D 82) D 83) A 84) C 85) B 86) B 87) B 88) D 89) B 90) A 91) C 92) A 93) D 94) B 95) C 96) C 97) A 98) A 99) A 100) C 101) B 102) B 103) A

104) A 105) C 106) B 107) B 108) A 109) B 110) D 111) D 112) A 113) B 114) A 115) A 116) B 117) A 118) D 119) B 120) D 121) C 122) C 123) C 124) B 125) C 126) C 127) A 128) C 129) D 130) B 131) B 132) D 133) A 134) D 135) A 136) C 137) C 138) B 139) A 140) D 141) C 142) D 143) A 144) D 145) D 146) B 147) B 148) C 149) A 150) C 151) A 152) A 153) A 154) A 155) D

156) A 157) A 158) B 159) C 160) D 161) D 162) A 163) B 164) C 165) A 166) C 167) A 168) D 169) D 170) A 171) D 172) C 173) C 174) A 175) A 176) A 177) B 178) A 179) A 180) C 181) C 182) B 183) A 184) A 185) A 186) C 187) B 188) D 189) B 190) A 191) C 192) A 193) D 194) A 195) A 196) A 197) C 198) D 199) C 200) D 201) D 202) B 203) A 204) D 205) D 206) D 207) C

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