Final Exam Review 168 guestions math 0305 Name Math0305 sullivan math developmental m0306sul 0706201500000 WWW.ALVAREZMATHHELP.COM MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. Solve the problem. 1) A group of 8 people wants to buy a boat. The boat costs \$832. If they all pay the same amount, how 1) much is each person's share? A) \$94 B) \$104 C) \$114 D) \$92 Answer: B Objective: (1.6) Use Models that Involve Dividing Whole Numbers Find the prime factorization of the number. 2) 63 2) A) 7 · 7 B) 9 · 3 C) 3 · 3 · 7 D) 9 · 7 Answer: C Objective: (1.7) Find the Prime Factorization of a Number 3) 350 3) A) $2 \cdot 2 \cdot 5 \cdot 5 \cdot 7$ B) 2 · 5 · 5 · 7 C) 14 · 5 · 5 D) $2 \cdot 5 \cdot 7$ Answer: B Objective: (1.7) Find the Prime Factorization of a Number Find the LCM of the set of numbers. 4) 28, 35 4) A) 980 B) 140 C) 63 D) 35 Answer: B Objective: (1.7) Find the Least Common Multiple of Two or More Numbers 5) 40, 70 5) A) 110 B) 2800 C) 280 D) 70 Answer: C Objective: (1.7) Find the Least Common Multiple of Two or More Numbers Find the greatest common factor of the numbers. 6) 480 and 9000 6) A) 360 B) 60 C) 120 D) 480 Answer: C Objective: (1.7) Find the Greatest Common Factor of Two or More Numbers 7) 40 and 16 7) A) 56 B) 5 C) 8 D) 4 Answer: C

Objective: (1.7) Find the Greatest Common Factor of Two or More Numbers

Simplify	the expression by using	g the order of operati	ions.		
8)	A) 53	B) 18	C) 43	D) 240	8)
	Answer C	_,	-,	_/	
	Objective: (1.8) Evaluate	Expressions Using the	Order of Operations		
9)	60 ÷ 10 · (14 - 9)				9)
	A) 75	B) 93	C) 138	D) 30	
	Answer: D Objective: (1.8) Evaluate	Expressions Using the	Order of Operations		
10)	<u>26(17 - 14) - 12</u>				10)
	32 - 3 Δ) 22	B) 11	C) 13	D) 14	
	Answer B	<i>b)</i> 11	0,10	0) 14	
	Objective: (1.8) Evaluate	Expressions Using the	Order of Operations		
11)	$\frac{11^2 - 41}{58 - 2(2 + 1)^2}$				11)
	A) 3	B) 1	C) 2	D) 6	
	Answer: C Objective: (1.8) Evaluate	Expressions Using the	Order of Operations		
Find the a	absolute value.				
12)	12	-> -			12)
	A) -12	B) 0	C) 24	D) 12	
	Answer: D Objective: (2.2) Compute	e the Absolute Value of	a Number		
13)	-21				13)
	A) -21	B) 42	C) 21	D) 0	
	Answer: C Objective: (2.2) Compute	e the Absolute Value of	a Number		
14)	0				14)
	A) 2	B) 0	C) 1	D) -1	
	Answer: B Objective: (2.2) Compute	e the Absolute Value of	a Number		
Find the	value of the expression.				
15)	-7 - 3 + -11 - 16				15)
	A) -9	B) 1	C) -31	D) 37	
	Answer: D Objective: (2.2) Evaluate	Numerical Expression	S		

Add.					
16) -7 + 5 A) -2	B) -12	C) 12	D) 2	16)
	Answer: A Objective: (2.3) Add Integers	Jsing Absolute Value	<i>c)</i>	_,_	
17) -2 + 67 A) 65	B) -69	C) 69	D) -65	17)
	Answer: A Objective: (2.3) Add Integers	Jsing Absolute Value			
18) -39 + 0 A) 39	B) -390	C) -39	D) 0	18)
	Answer: C Objective: (2.3) Add Integers	Jsing Absolute Value			
19) 21 + (-21) A) 42	B) -21	C) 21	D) 0	19)
	Answer: D Objective: (2.3) Add Integers	Jsing Absolute Value			
Subtract.					
20	A) 9 (A) 9	B) -9	C) 0	D) not possible	20)
	Answer: B Objective: (2.3) Subtract Integ	ers			
21) -20 - 0 A) 0	B) -20	C) 20	D) not possible	21)
	Answer: B Objective: (2.3) Subtract Integ	ers			
Simplify	<i>.</i>				
22)) 1 + (-5) - 12 A) 8	B) 16	C) -16	D) 18	22)
	Answer: C Objective: (2.3) Evaluate Expr	essions that Include Both Ad	ddition and Subtraction		
23) 2 + 6 - (-12)				23)
	A) 20 Answer: A Objective: (2.3) Evaluate Expr	or - ام essions that Include Both Ad	ddition and Subtraction	-20	
24) 8 + (-2) - (-5) - 16				24)
	A) 27	B) 17	C) -5	D) 21	·
	Answer: C Objective: (2.3) Evaluate Expr	essions that Include Both A	ddition and Subtraction		

Evaluate.					
25)	5 - 9		0) 14		25)
	A) -4	B) 14	C) -14	D) 4	
	Answer: D Objective: (2.3) Evaluate Expre	essions Involving Absolute	Value		
26)	-12 + (-14)				26)
	A) -2	B) 2	C) -26	D) 26	
	Answer: A Objective: (2.3) Evaluate Expre	essions Involving Absolute	Value		
27)	- -17 - 13				27)
,	A) -4	B) -30	C) 30	D) 4	, <u> </u>
	Answer: B Objective: (2.3) Evaluate Expre	essions Involving Absolute	Value		
Multiply					
28)	8(6)				28)
	A) 48	B) 38	C) 480	D) 40	
	Answer: A Objective: (2.4) Multiply Integ	ers			
29)	-3(-5)				29)
	A) -12	B) 5	C) -15	D) 15	
	Answer: D Objective: (2.4) Multiply Integ	ers			
30)	-7(8)				30)
	A) 46	B) -56	C) -49	D) 56	
	Answer: B Objective: (2.4) Multiply Integ	ers			
21)	10(11)				21)
51)	A) 209	B) -228	C) 228	D) 220	51)
	Answer: A Objective: (2.4) Multiply Integ	ers			
32)	-4(-3)(-4)				32)
02)	A) 52	B) 48	C) -58	D) -48	
	Answer: D Objective: (2.4) Multiply Integ	ers			
33)	7(-1)(10)(-3)				33)
55)	A) 37	B) 0	C) 210	D) -210	
	Answer: C Objective: (2.4) Multiply Integ	ers			

Divide, if	possible. If a quotient is u	ndefined, state so.			24)
54)	A) -3	B) -2	C) 2	D) -1	54)
	Answer: B Objective: (2.4) Divide Intege	ers	-, -	_, .	
35)	24				35)
	-4				
	A) o Answer: B Objective: (2.4) Divide Intege	B) -0	C) -5	U) - /	
36)	<u>-14</u> -2				36)
	- A) -8	B) 7	C) -6	D) -7	
	Answer: B Objective: (2.4) Divide Intege	ers		,	
37)	<u>-25</u> 0				37)
	A) 0	B) 1	C) 25	D) Undefined	
	Answer: D Objective: (2.4) Divide Intege	ers			
38)	0-92				38)
	A) 1	B) -92	C) Undefined	D) 0	
	Answer: D Objective: (2.4) Divide Intege	ers			
Evaluate.					
39)	-51 + (-12) A) -39	B) 39	C) -63	D) 63	39)
	Answer: C Objective: (2.4) Add or Subtr	act Integers	,	,	
40)	12 - 8				40)
	A) 20	B) -20	C) 4	D) -4	
	Objective: (2.4) Add or Subtr	act Integers			
41)	-5 - 20				41)
	A) -25	B) 15	C) 25	D) -15	
	Answer: A Objective: (2.4) Add or Subtr	act Integers			

42)	-3 - (-9)				42)
	A) -3	B) 6	C) -12	D) -6	
	Answer: B Objective: (2.4) Add or Subtrac	ct Integers			
Perform t	he indicated operations.				
43)	<u>14 - 20</u> -1				43)
	A) -7	B) 6	C) 34	D) -6	
	Answer: B Objective: (2.4) Perform Multi	ple Operations on Integers			
44)	<u>-12</u> -5 - 7				44)
	A) -1	B) -12	C) 12	D) 1	
	Answer: D Objective: (2.4) Perform Multi	ple Operations on Integers			
45)	$\frac{48}{-6} - \frac{24}{-8}$				45)
	A) 5	B) -11	C) -5	D) 11	
	Answer: C Objective: (2.4) Perform Multi	ple Operations on Integers			
46)	$\frac{-45}{5} - \frac{3}{3}$				46)
	A) -10	B) 8	C) 9	D) -9	
	Answer: A Objective: (2.4) Perform Multi	ple Operations on Integers			
Evaluate.					
47)	-43				47)
	A) -64	B) 64	C) -256	D) 256	
	Objective: (2.5) Evaluate Expo	nential Notation			
48)	(-3)3				48)
	A) 9 Answer: B	В) -27	C) 27	D) -81	
	Objective: (2.5) Evaluate Expo	nential Notation			
49)	(-6) ²				49)
	A) 36	B) 6	C) -6	D) -36	
	Answer: A				

Objective: (2.5) Evaluate Exponential Notation

50)) -22				50)
	A) 4	B) -4	C) -8	D) 8	
	Answer: B				
	Objective: (2.5) Evaluate Expo	onential Notation			
Simplify	using order of operations.				
51)) 8 + 4 · (-8)				51)
	A) 96	B) 24	C) -96	D) -24	
	Answer: D				
	Objective: (2.5) Apply the Ore	der of Operations Using Inte	egers		
52) -4 +9(4 - 6)				52)
	A) 10	B) 22	C) -22	D) -10	
	Answer: C				
	Objective: (2.5) Apply the Ore	der of Operations Using Inte	egers		
۲ 3)) 5(-3 + 7) - (3 - 7)				53)
55	A) 4	B) -24	C) -4	D) 24	
	Δnswer D	2) =:	c)		
	Objective: (2.5) Apply the Ord	der of Operations Using Inte	egers		
	log (2)2				
54)	$\left(\frac{- 22-42 ^2}{2(-10)+26}\right)$				54)
	3(-10) + 20		\sim 10		
	A) - 18	B) 9	C) 18	D) 15	
	Answer: B Objective: (2.5) Apply the Ord	der of Operations Using Inte	egers		
	a gana a kanya ni gana a	J			
Evaluate	the expression for the given	values of the variables.			
55)) 9x for x = 6	D) 45			55)
	A) 6	B) 15	C) 9	D) 54	
	Answer: D	hanin Europeaniana			
	Objective: (2.6) Evaluate Alge	braic Expressions			
56)) 23 - z ² for z = -4				56)
	A) 7	B) 184	C) 31	D) 39	
	Answer: A				
	Objective: (2.6) Evaluate Alge	braic Expressions			
57	$x^{2} + 2x + 4$ for x = 7				57)
07	A) 32	B) 25	C) 55	D) 67	
	Answer [.] D				
	Objective: (2.6) Evaluate Alge	braic Expressions			
EO,	$10x^2$ (wfor x 7 and x (E0)
58,	y = 0 $x^{-} + 4y 0 x = 1, and y = 6$ $x^{-} = 0$	B) 116	() 2544	D) 3160	JØ)
	Answer: D		0/2044	0, 5100	
	Objective: (2.6) Evaluate Alge	braic Expressions			

5	9) b ² - 4ac for b = -2, a = 2	, c = 2			59)
	A) -18	B) -12	C) -22	D) -8	
	Answer: B Objective: (2.6) Evaluate A	Igebraic Expressions			
Use the	distributive property to re	write the algebraic exp	pression without parenthe	ses. Then simplify the	result, if
. 6	0) -5(x + y)				60)
	A) -5xy Answer: C	B) -5x + 5y	C) -5x - 5y	D) -5x + y	
	Objective: (2.6) Simplify A	Igebraic Expressions and	d Use the Distributive Proper	ty	
6	1) 6(5x - 5)				61)
	A) 30x - 30	B) 30x - 5	C) 60x	D) 11x - 11	·
	Answer: A Objective: (2.6) Simplify A	Igebraic Expressions and	d Use the Distributive Proper	ty	
Simplif	y the expression.				
6	2) 6a - 2a + 4	_			62)
	A) 8a	B) -4a + 4	C) 8a + 4	D) 4a + 4	
	Answer: D Objective: (2.6) Simplify A	Igebraic Expressions and	d Use the Distributive Proper	ty	
6	3) 3 + 2(x + 4y)				63)
	A) 3 + 2x + 4y	B) 5x + 4y	C) 3 + 2x + 8y	D) 3 + 8xy	
	Answer: C Objective: (2.6) Simplify A	Igebraic Expressions and	I Use the Distributive Proper	ty	
6	4) 6x - (8 - 4x)				64)
-	A) 2x - 8	B) 10x + 8	C) 6x - 12	D) 10x - 8	
	Answer: D Objective: (2.6) Simplify A	Igebraic Expressions and	d Use the Distributive Proper	ty	
6	$\begin{array}{r} 5) -4(2X - 10) - 4X + 9 \\ \Delta 12x + 49 \end{array}$	B) $_{-12x \pm 49}$	() -12x - 31	D) /x + /9	65)
	Answer: B	$D_{j} = 12X + 47$	0) - 12X - 31	D) 4X 1 47	
	Objective: (2.6) Simplify A	Igebraic Expressions and	d Use the Distributive Proper	ty	
Determ	ine if the given integer valu 6) x + 1 = 16; 15	ue for the variable is a	solution to the equation.		66)
	A) Yes		B) No		·
	Answer: A Objective: (2.7) Determine	Whether a Number is a	Solution of an Equation		
6	7) 8n = 45 - n; 5				67)
Ū	A) Yes		B) No		
	Answer: A Objective: (2.7) Determine	Whether a Number is a	Solution of an Equation		

68) 3(t - 4) = 26; 11 A) Yes		B) No		68)
Answer: B Objective: (2.7) Dete	rmine Whether a Number is	s a Solution of an Equation		
69) 6k + 5 = 4k + 9; 2 A) Yes		B) No		69)
Answer: A Objective: (2.7) Dete	rmine Whether a Number is	s a Solution of an Equation		
se the addition property of 70) -22 = n - 6	equality to solve the equ	ation.		70)
A) -16	B) 28	C) -28	D) 16	
Answer: A Objective: (2.7) Use	the Addition Property of Eq	uality to Solve Linear Equat	ions	
71) f + 3 = -13 A) 10	B) 16	C) -10	D) -16	71)
Answer: D Objective: (2.7) Use	the Addition Property of Eq	uality to Solve Linear Equat	ions	
72) x + 5 = 19				72)
A) $\frac{5}{19}$	B) -14	C) 14	D) 24	
Answer: C Objective: (2.7) Use	the Addition Property of Eq	uality to Solve Linear Equat	ions	
73) a - 18 = -5 A) -23	B) -13	C) 13	D) 23	73)
Answer: C Objective: (2.7) Use	the Addition Property of Eq	uality to Solve Linear Equat	ions	
74) -28 = 8 + a A) -36	B) 36	C) -20	D) 20	74)
Answer: A Objective: (2.7) Use	the Addition Property of Eq	uality to Solve Linear Equat	ions	
75) $x + 2 = -23 + 7$	D\ 10	C) 10	22 (ח	75)
Answer: C Objective: (2.7) Use	the Addition Property of Eq	uality to Solve Linear Equat	ions	
76) = 5 = 27 = m = 10				76)
A) 42	B) -42	C) -22	D) 22	
Answer: C Objective: (2.7) Use	the Addition Property of Eq	uality to Solve Linear Equat	ions	

Use the multiplication property of equality to solve the equation. 77) $7x = 42$					77)
	A) 294	B) $\frac{1}{6}$	C) 35	D) 6	
	Answer: D Objective: (2.7) Use the Multip	blication Property of Equali	ty to Solve Linear Equations		
78)	8a = -16 A) -2	B) 1	C) 24	D) -24	78)
	Answer: A Objective: (2.7) Use the Multip	blication Property of Equalit	ty to Solve Linear Equations		
79)	$\frac{x}{5} = 20$				79)
	A) 95	B) 100	C) 80	D) 25	
	Answer: B Objective: (2.7) Use the Multip	plication Property of Equalit	ty to Solve Linear Equations		
80)	$\frac{x}{-4} = 29$				80)
	A) -87	B) -33	C) -112	D) -116	
	Answer: D Objective: (2.7) Use the Multip	blication Property of Equalit	ty to Solve Linear Equations		
Solve the 81)	problem. The formula for the area of a feet and an area of 168 squa	a rectangle is A = Iw. Find re feet.	I the length of a rectangle	with a width of 14	81)
	A) 14 feet	B) 12 feet	C) 140 feet	D) 154 feet	
	Answer: B Objective: (2.7) Use the Multip	olication Property of Equalit	ty to Solve Linear Equations		
Use both 82)	properties of equality to sol 8r + 5 = 77	ve the equation.			82)
	A) 4	B) 64	C) 9	D) 68	
	Answer: C Objective: (2.8) Apply the Add	dition and Multiplication Pr	operties of Equality to Solve	e Basic Linear Equations	
83)	2n - 8 = 10				83)
	A) 20	B) 16	C) 13	D) 9	
	Answer: D Objective: (2.8) Apply the Add	dition and Multiplication Pr	operties of Equality to Solve	e Basic Linear Equations	
84)	20 = 3x + 5	D) 1	C) 14	ר) 12	84)
	Answer: A	DJ I	C) 10	ון ען 12	
	Objective: (2.8) Apply the Ad	dition and Multiplication Pr	operties of Equality to Solve	e Basic Linear Equations	

	Answer: D Objective: (2.8) Solve a Linear	Equation with the Variable	on Both Sides of the Equation	on	
93)	10y = 7y + 7 + 2y A) -70	B) -7	C) 70	D) 7	93)
	Answer: D Objective: (2.8) Solve a Linear	Equation with the Variable	on Both Sides of the Equation	on	
92)	3m + 15 = 4m + 5 A) 9	B) 6	C) 11	D) 10	92)
	Answer: C Objective: (2.8) Solve a Linear	Equation with the Variable	on Both Sides of the Equation	on	
91)	2p + 14 = 3p - 1 A) 6	B) 16	C) 15	D) 14	91)
	Answer: B Objective: (2.8) Combine Like Equation	Terms and Apply the Distri	butive Property with Varial	bles on One Side of the	
90)	-(x + 5) + 6 = -4 A) {6}	B) {5}	C) {4}	D) {-3}	90)
	Answer: A Objective: (2.8) Combine Like Equation	Terms and Apply the Distri	butive Property with Varial	bles on One Side of the	
89)	-2(2 + x) = -14 A) {5}	B) {-16}	C) {9}	D) {-12}	89)
	Answer: A Objective: (2.8) Combine Like Equation	Terms and Apply the Distri	butive Property with Varial	bles on One Side of the	
88)	-4 = 3y - y A) {-2}	B) {2}	C) {1}	D) {-4}	88)
	Answer: B Objective: (2.8) Combine Like Equation	Terms and Apply the Distri	butive Property with Varial	bles on One Side of the	
Solve the 87)	equation. -3a + 4 + 4a = 12 - 26 A) {42}	B) {-18}	C) {-42}	D) {18}	87)
	Answer: B Objective: (2.8) Apply the Add	dition and Multiplication Pr	operties of Equality to Solve	Basic Linear Equations	
86)	-53 = 10y + 7 A) -66	B) -6	C) -70	D) 12	86)
	Answer: A Objective: (2.8) Apply the Add	dition and Multiplication Pr	operties of Equality to Solve	e Basic Linear Equations	
85)	79 = 7 - 9m A) -8	B) -63	C) -1	D) -67	85)

94)	-8b + 4 + 6b = -3b + 9				94)
	A) -9	B) 5	C) 9	D) -4	
	Answer: B Objective: (2.8) Solve a Linear	r Equation with the Variable	on Both Sides of the Equati	on	
Solve the 95)	problem. The sum of a number and t	hree is negative fifteen. Fi	ind the number.	D) 10	95)
	Answer: D Objective: (2.9) Solve Direct 1	Franslation Problems Contai	ning One Unknown	<i>D</i>) - 10	
96)	The sum of a number and t	wo is negative sixteen. Fi	nd the number.		96)
	A) -18	B) -14	C) 0	D) 18	
	Answer: A Objective: (2.9) Solve Direct 1	Franslation Problems Contai	ning One Unknown		
97)	Seven times a number, add A) 7	ed to 9, is 16. Find the nur B) 1	nber. C) -1	D) 49	97)
	Answer: B Objective: (2.9) Solve Direct 7	Franslation Problems Contai	ning One Unknown		
98)	Six times a number, added	to 6, is 30. Find the number	er.		98)
	A) 4 Answer: A Objective: (2.9) Solve Direct 1	B) 144	C) -4 ning One Unknown	D) 24	
99)	During an intramural bask teams scored a total of 151 A) 75 points	etball game, Team A score points. How many points B) 85 points	d 19 fewer points than Tea did Team A score during C) 67 points	am B. Together, both the game? D) 66 points	99)
	Answer: D Objective: (2.9) Solve Direct 1	Franslation Problems Contai	ning One Unknown		
100)	Jordan sold his used electric for the electric saw as he di electric saw.	c saw and accessories for \$ d for the accessories, find	324. If he received five tin how much money he recei	nes as much money ived for the	100)
	A) \$64	B) \$1620	C) \$270	D) \$54	
	Answer: C Objective: (2.9) Solve Direct 1	Franslation Problems Contai	ning One Unknown		
101)	The BBQ committee always Homecoming BBQ, plus 12 year, find the number of pe	s orders one pound of ribs extra pounds of ribs. If the pople who signed up for th	for each person who signs e committee ordered 110 p e BBQ.	s up for the bounds of ribs this	101)
	A) 12 people	B) 110 people	C) 122 people	D) 98 people	
	Answer: D Objective: (2.9) Solve Direct T	Franslation Problems Contai	ning One Unknown		

Divide and simplify.				
102) $\frac{1}{4} \div \frac{5}{6}$				102)
A) $\frac{5}{24}$	B) $\frac{24}{5}$	C) $\frac{10}{3}$	D) $\frac{3}{10}$	
Answer: D Objective: (3.	3) Divide Fractions			
Determine whether th	e given number is a solution of the e	equation.		
103) 8b - 6 = 9 - 1	7b; b = 1			103)
A) NO Answer: B		B) Yes		
Objective: (3.	3) Determine Whether the Given Numbe	er is a Solution of	the Equation	
Perform the indicated	operation and write the answer in Ic	owest terms.		
104) $\frac{2}{3} + \frac{1}{6}$				104)
A) $\frac{1}{2}$	B) 8 9	C) $\frac{1}{3}$	D) $\frac{5}{6}$	
Answer: D Objective: (3	5) Add or Subtract Fractions with Unlike	e Denominators		
105) $\frac{6}{8} - \frac{1}{8}$				105)
8 9 23	5	1	5	
A) $\frac{23}{36}$	B) 3 72	C) $\frac{1}{9}$	D) $\frac{3}{8}$	
Answer: A Objective: (3	5) Add or Subtract Fractions with Unlike	e Denominators		
Simplify the expression	on.			
106) $\frac{7}{9} \div \frac{3}{4} - \frac{4}{9}$				106)
A) $\frac{26}{27}$	B) <u>52</u> 45	C) $\frac{32}{45}$	D) <u>16</u> 27	
Answer: D Objective: (3.	6) Evaluate Expressions Using the Order	r of Operations		
Simplify the complex	fraction by simplifying the numerate	or and denomin	ator separately.	
$\frac{\frac{2}{7}}{107}$				107)
$\frac{1}{5}$				
A) $\frac{2}{35}$	B) 4 17	C) 7 10	D) <u>10</u> 7	
Answer: D				

Objective: (3.6) Simplify Complex Fractions Using the Order of Operations

Sin

Simplify the complex fraction using the LCD method.108)
$$\frac{5}{8} - \frac{5}{7}$$
108)A) $\frac{125}{69}$ B) $\frac{50}{99}$ C) $\frac{50}{69}$ D) $\frac{69}{50}$ Answer: CDijective: (3.6) Simplify Complex Fractions Using the LCD109) $\frac{4}{8}$ 109)A)12B)1C) $\frac{12}{x}$ D) $\frac{x}{12}$ Answer: CDijective: (3.6) Simplify Complex Fractions Using any Method109) $\frac{x}{16}$ 110)A)12B)1C) $\frac{12}{x}$ D) $\frac{x}{12}$ Answer: CDijective: (3.6) Simplify Complex Fractions Using any Method110) $\frac{-1}{5}$ 110)Use the properties of equality to solve the equation.110) $\frac{-1}{5}$ 110) $\frac{-1}{5}$ A) $\left\{\frac{11}{15}\right\}$ B) $\langle 15\rangle$ C) $\left\{\frac{5}{12}\right\}$ D) $\left\{\frac{12}{5}\right\}$ Answer: BObjective: (3.8) Solve Equations Containing Fractions111) $\frac{-1}{9}$ $\frac{-1}{16}$ 111)A) $\left\{\frac{-9}{16}\right\}$ B) $\left\{\frac{9}{16}\right\}$ C) $\left\{\frac{9}{4}\right\}$ D) $\left\{\frac{16}{9}\right\}$ Answer: BObjective: (3.8) Solve Equations Containing Fractions112) $\frac{x+7}{7}$ 112)A) $\left\{\frac{13}{15}\right\}$ B) $\left\{\frac{1}{56}\right\}$ C) $\left\{\frac{13}{56}\right\}$ D)(1)Answer: BObjective: (3.8) Solve Equations Containing Fractions112) $\frac{12}{56}$ D)(1)Answer: DObjective: (3.8) Solve Equations Containing Fractions112) $\frac{12}{56}$ D)

Use the Lo 113)	Use the LCD to simplify and solve. 113) $\frac{1}{2}x - \frac{2}{5}x = 1$				
	Answer: A Objective: (3.8) Solve Equation	ns Using the LCD		D) (* 10)	
114)	$\frac{4}{3}x + \frac{1}{2} = \frac{x}{6} + \frac{1}{4}$	$B_{10}\left(10\frac{4}{10}\right)$	$\left(1, \frac{1}{2}\right)$	$\left[-\frac{2}{2}\right]$	114)
	Answer: A Objective: (3.8) Solve Equation	hs Using the LCD	C) { ⁻ 6}	$b) \left\{ -\frac{5}{5} \right\}$	
115)	$-\frac{5}{6}x = \frac{4}{9} - \frac{1}{3}$				115)
	A) $\left\{ \frac{2}{15} \right\}$ Answer: C Objective: (3.8) Solve Equation	B) $\left\{ \frac{4}{15} \right\}$	C) $\left\{-\frac{2}{15}\right\}$	D) $\left\{-\frac{4}{15}\right\}$	
116)	$\frac{x}{4} = \frac{x}{9} + \frac{9}{4}$				116)
	A) $\left\{\frac{5}{81}\right\}$ Answer: B	B) $\left\{\frac{81}{5}\right\}$	C) $\left\{-\frac{9}{4}\right\}$	D) {0}	
	Objective: (3.8) Solve Equation	ns Using the LCD			
Add. 117)	7.07 + 0.52 A) 7.63	B) 6.55	C) 7.55	D) 7.59	117)
	Answer: D Objective: (4.3) Add Decimals				
118)	499.27 + 7.65 A) 506.92	B) 506.81	C) 506.82	D) 506.91	118)
	Answer: A Objective: (4.3) Add Decimals				
Subtract.					
119)	18.43 - 13.919 A) 32.349	B) 4.611	C) 4.511	D) 33.349	119)
Answer: C Objective: (4.3) Subtract Decimals					

120) 13.62 - 2.188	D) 11 400	0) 11 522	D) 15 000	120)
A) 16.808 Answer: B	B) 11.432	C) 11.532	D) 15.808	
Objective: (4.3) Sub	tract Decimals			
121) 7.719 - 3.18				121)
A) 4.639	B) 4.539	C) 4.538	D) 4.549	
Answer: B Objective: (4.3) Sub	tract Decimals			
Evaluate the expression for 122) x + z for x = 7.4	the given replacement values. , z = 0.87			122)
A) 16.54	B) 8.27	C) 6.53	D) 16.1	·
Answer: B Objective: (4.3) Eva	luate Algebraic Expressions Con	taining Decimals		
123) y - x + z for x =	= 3.6, y = 5, z = 0.80			123)
A) 2.3	B) -0.6	C) 0.6	D) 2.2	·
Answer: D Objective: (4.3) Eva	luate Algebraic Expressions Con	taining Decimals		
Simplify the expression by $(124) = 755x + (-0.17x)$	combining like terms.			124)
A) 7.72x	B) -7.72x	C) -7.38x	D) 7.38x	12-1)
Answer: B Objective: (4.3) Sim	plify Algebraic Expressions Cont	taining Decimals		
125) 30.1y + 5.9 - 15.8y	- 17			125)
A) 14.3X - 11.1	B) 15.3x - 11.1	C) 14.3x + 11.1	D) 3.2x	
Objective: (4.3) Sim	plify Algebraic Expressions Cont	taining Decimals		
Multiply.				
126) 0.07 × 0.5	D) 2 E	C) 0 0025		126)
A) 0.035 Answer: A Objective: (4,4) Mul	b) 3.5	C) 0.0035	D) 0.35	
127) (13.75)(0.0058) A) 0.08975	B) 0.17975	C) 0.06975	D) 0.07975	127)
Answer: D Objective: (4.4) Mul	tiply Decimals			
Find the unknown number i	n the proportion. Round answ	wer to the nearest hundred	dth when necessary.	
128) $\frac{x}{42} = \frac{5}{14}$				128)
A) x = 1.7	B) x = 15	C) x = 20	D) x = 117.6	

Answer: B Objective: (5.3) Determine the Missing Number in a Proportion

129)	$\frac{x}{51} = \frac{4}{17}$				129)
	A) x = 12	B) x = 16	C) x = 1.3	D) x = 216.8	
	Answer: A				
	Objective: (5.3) Determine the	e Missing Number in a Prop	ortion		
130)	$\frac{4}{x} = \frac{20}{10}$				130)
	A) $x = 2$	B) x = 8.0	C) x = 20	D) x = 0.13	
	Answer: A	_,	-,	_,	
	Objective: (5.3) Determine the	e Missing Number in a Prop	ortion		
Find the	unknown number in the pro	oportion. Write your ansv	ver as a whole number or	a mixed number if po	ssible.
131)	$\frac{33}{x} = \frac{7}{1}$				131)
	5				
	A) x = 25	B) x = 7	C) x = 1	D) x = 49	
	Answer: C				
	Objective: (5.3) Determine the	e Missing Number in a Prop	ortion		
Find the	longth of the missing side fo	or the given pair of simila	or figuros		
132)		in rigures.		132)
,	_				,
	75 cm r	n 7 cm 25 cm			
		h			
	A) 28 cm	B) 12 cm	C) 21 cm	D) 7 cm	
	Answer: C				
	Objective: (5.3) Model and So	live Problems with Similar F	igures		
133))				133)
/					
		v			
	5 yd				
	15 yd	30 yd			
	A) 10 yd	в) а да	C) 20 ya	D) 5 Yd	

Answer: A

Objective: (5.3) Model and Solve Problems with Similar Figures

Solve the problem.

134) A 5-foot tree casts a 13-foot shadow and creates a right triangle, as shown. At the same time, a nearby building casts a 156-foot shadow, creating a similar right triangle. What is the height of the building?

134) _____

			_	3 Mr 2 Arrows	
	3 5 ft			h	
	13 ft			3	
	A) 60 ft	B) 84 ft	C) 405.6 ft	D) 31.2 ft	
	Answer: A Objective: (5.3) N	Vodel and Solve Problems with	n Similar Figures		
Write as a 135)	decimal. 40% A) 0.04	B) 0.4	C) 0.29	D) 4	135)
	Answer: B Objective: (5.4) C	Convert Percents to Decimals a	nd Decimals to Percents	,	
Write as a 136)	percent. 0.568 A) 0.0568%	B) 56.8%	C) 568%	D) 0.568%	136)
	Answer: B Objective: (5.4) C	Convert Percents to Decimals a	nd Decimals to Percents	,	
Write the 137)	percent as a frac 60%	ction in lowest terms.			137)
	A) $\frac{3}{5}$	B) $\frac{3}{10}$	C) 6	D) $\frac{6}{5}$	
	Answer: A Objective: (5.4) C	Convert Percents to Fractions a	nd Fractions to Percents		
Translate 138)	to a proportion What is 45% of	and solve. When necessary 500?	y, round to the nearest hundre	edth.	138)
,	A) 225	B) 22.5	C) 2.25	D) 2250	,
	Answer: A Objective: (5.5) S	Solve Percent Problems Using t	he Proportion Method		
139)	What is 7% of 9 A) 6930	1900? B) 7930	C) 693	D) 793	139)
	Answer: C Objective: (5.5) S	Solve Percent Problems Using t	he Proportion Method		

140)	What percent of 50 is 12? A) 64%	B) 24%	C) 32%	D) 12%	140)	
	Answer: B Objective: (5.5) Solve Percent	Problems Using the Proport	ion Method			
141)	80 is 20% of what? A) 4000	B) 400	C) 40	D) 16	141)	
	Answer: B Objective: (5.5) Solve Percent	Problems Using the Proport	ion Method			
Solve the 142)	problem. The parking lot at a country sedans?	r club has 50 cars in it. 70%	of the cars are sedans. Ho	ow many cars are	142)	
	A) 35 cars	B) 350 cars	C) 71 cars	D) 7 cars		
	Answer: A Objective: (5.5) Solve Problem	s Involving Percent				
143)	An insurance fund invests \$ How much money is earned	i118,800 in municipal bon d per year?	ds and earns 15% per year	on the investment.	143)	
	A) \$79,200	B) \$178,200	C) \$792,000	D) \$17,820		
	Answer: D Objective: (5.5) Solve Problem	is Involving Percent				
144)	The appliance store where t family received a discount o A) \$3	he Scott family shops offe of \$43. What was their tota B) \$7	rs a 6% discount for payin Il bill before the discount? C) \$300	g cash. The Scott D) \$717	144)	
	Answer: D Objective: (5.6) Solve Problem	s Involving Percent		, ,		
Solve.						
145)	A \$330 lamp is on sale at 30 A) \$231.00	% off. Find the discount. B) \$320.10	C) \$99.00	D) \$9.90	145)	
	Answer: C Objective: (5.7) Calculate Discounts and Find the Sales Price					
146)	A \$3000 painting is on sale a A) \$1650.00	at 45% off. Find the sale pr B) \$2865.00	ice. C) \$1350.00	D) \$135.00	146)	
	Answer: A Objective: (5.7) Calculate Disc	counts and Find the Sales Pr	ice			
Find the r 147)	requested angle. The supplement of 73°. A) 287°	B) 197°	C) 107°	D) 17°	147)	
	Answer: C Objective: (6.4) Work with Ar	ngles				

Find the measure of $\angle x$ in the triangle.



Answer: B

Objective: (6.5) Find the Measures of Angles of a Triangle

Given that the pair of triangles is similar, find the length of the side labeled n. 149)



Objective: (6.6) Find the Perimeter and Area of a Rectangle and a Square



20

148)

152)				152)
6 m				
21 m 17 m 14 m 12 m 21 m	18 m			
	D) 110			
A) 98 m	B) 112 m	C) 84 m	D) 95 m	
Objective: (6.6) Find the Peri	meter and Area of a Rectangl	le and a Square		
Solve the problem				
153) How much will it cost to ca A) \$1111.50	arpet a 19 ft by 13 ft room if B) \$277.88	carpeting costs \$13.50 per C) \$370.50	⁻ square yard? D) \$3334.50	153)
Answer: C		, •	,	
Objective: (6.6) Find the Peri	meter and Area of a Rectangl	le and a Square		
Find the perimeter. 154)				154)
10 ft 5	ft			
11 ft	7			
A) 21 ft	B) 27.5 ft	C) 25 ft	D) 26 ft	
Answer: D Objective: (6.6) Find the Peri	meter and Area of a Triangle			
155) Ages of patients (in years)	's. in a clinic: 18, 2, 29, 18			155)
Round answer to the neare	st whole number if necessa	iry.		
A) 2 year(s)	B) 17 years	C) 16 years	D) 18 years	
Answer: B				
Objective: (7.3) Find the Mea	In of a Set of Numbers			
156) Inches of snowfall per mon	ith: 8.4, 8.8, 6.6, 8.8, 6.4			156)
Round answer to the neare	st tenth if necessary.			
A) 6.5 in.	B) 7.8 in.	C) 8.4 in.	D) 8.8 in.	
Answer: B Objective: (7.3) Find the Mea	n of a Set of Numbers			
157) Annual sales bonuses: \$14	50, \$4460, \$6940. \$7240. \$18	380, \$6250		157)
Round answer to the neare	st whole number if necessa	iry.		· /
A) \$4703	B) \$7240	C) \$6940	D) \$4702	
Answer: A Objective: (7.3) Find the Mea	n of a Set of Numbers			

Solve the	equation. Check your solu	tion.				
158)	-3.3x = 13.2				158)	
	A) {4}	B) {-4}	C) {-0.4}	D) {-40}		
	Answer: B	- Equation Containing D	admala			
	Objective: (8.4) Solve a Linea	r Equation Containing D	ecimais			
159)	x + 7.1x = 234.9				159)	
	A) {2.9}	B) {30}	C) {36.1}	D) {29}		
	Answer: D Objective: (8.4) Solve a Linea	r Equation Containing D	ecimals			
160)	1.1x - 4.5 = 0.5x - 2.34				160)	
,	A) {3.636}	B) {3.61}	C) {-0.278}	D) {3.6}		
	Answer: D Objective: (8.4) Solve a Linea	r Equation Containing D	ecimals			
Solve the	equation. State whether th	e equation is a contrac	liction, an identity, or a cor	nditional equation.		
161)	-/x + 5 + 5x = -2x + 10	on	D) (or (), contradicti		161)	
	 A) {5}; conditional equali C) all real numbers: iden 	on titv	B) \emptyset of $\{$ $\}$; contradictional equip	un		
	Answer B	ing				
	Objective: (8.4) Classify a Lin	ear Equation as an Identi	ity, Conditional, or a Contrad	iction		
162)	162) 2(x + 3) = (2x + 6)					
,	A) {12}; conditional equa	tion	B) {0}; conditional equal	ation		
	C) \emptyset or { }; contradiction	l	D) all real numbers; ide	entity		
	Answer: D Objective: (8.4) Classify a Lin	ear Equation as an Identi	ity, Conditional, or a Contrad	iction		
Substitut	e the given values into the f	ormula and then evalu	ate to find the unknown q	uantity. Label units i	n your answer.	
142)	Wer is not exact, round your $D = 2I + 2W + D = 29 W = 0$	r answer to the hearest	nundreath.		162)	
103)	A) 9.5 units	B) 19 units	C) 14 units	D) 5 units	103)	
	Answer: D	_,	-,	_,		
	Objective: (8.5) Evaluate a Fo	rmula				
144)	l prt. 1 110 p 160 r	0.04			1(1)	
104)	$I = \rho I I; I = 44.8, \rho = 100, I = $ A) 0.7 units	B) 2.8672 units	C) 7 units	D) 286 72 units	164)	
	Answer: C	D) 2.0072 Units		D) 200.72 units		
	Objective: (8.5) Evaluate a Fo	rmula				
165)	Use the formula $C = \frac{5}{6}(F - $	32) to convert 167° F to	degrees Celsius.		165)	
	A) 75° C	B) 110.6° C	C) 332 6° C	D) 60.8° C		
	Answer: A	rmula	0,002.0 0	2,000		
		maia				

166)	166) The formula S = P - 0.15P gives the sale price, S, of a shirt that was marked down 15% from the original price, P. Find the sale price of a shirt that originally cost \$36.					
	A) \$37.50 B) \$30.60 C) \$35.85 D) \$41.40					
	Answer: B Objective: (8.5) Evaluate a For	mula				
Solve the	problem.					
167)	 167) A truck rental company rents a moving truck one day by charging \$29 plus \$0.07 per mile. Write a linear equation that relates the cost y, in dollars, of renting the truck to the number x of miles driven. What is the cost of renting the truck if the truck is driven 180 miles? A) y = 0.07x - 29; \$16.40 B) y = 29x + 0.07; \$5220.07 C) y = 0.07x + 29; \$41.60 D) y = 0.07x + 29; \$30.26 				167)	
	Answer: C Objective: (9.5) Work with Linear Models in Slope-Intercept Form					
168) In a certain city, the cost of a taxi ride is computed as follows: There is a fixed charge of \$2.55 as soon as you get in the taxi, to which a charge of \$1.85 per mile is added. Find a linear equation that can be used to determine the cost, y, of an x-mile taxi ride, and use this equation to find the cost of a 9-mile taxi ride.				168)		
	A) \$20.10	B) \$19.20	C) \$19.08	D) \$19.38		
	Answer: B Objective: (9.5) Work with Linear Models in Slope-Intercept Form					