Student:	Instructor: Alfredo Alvarez	Assignment:
Date:	Course: Math 0410 / 0320 Alvarez	MATH3RDGRADEWARMUP149L

1. Determine the place value of the digit 5 in the whole number.

 805					

Choose the correct answer below.

- O Hundreds
- Ones
- O Tens
- O Thousands

Answer: Ones

2. Determine the place value of the digit 7 in the whole number 7025.

Choose the correct answer below.

O tens

- O hundreds
- O thousands
- O ones

Answer: thousands

3. Write the whole number in expanded form.

9570

9570 =

(Type your answer using plus signs.)

Answer: 9000 + 500 + 70

The table shows the number of calories burned during 30 minutes of exercise and how the number of calories burned varies according to the weight of the person doing the exercise. For a person weighing 100 pounds, how many calories will be burned during 30 minutes of moderate jogging?	Activity	100 lb	120 lb
	Moderate jogging	285	342
	Moderate walking	100	120
	Moderate cycling	124	149
	Aerobic dance	182	218
	Racquetball	194	233
	Tennis	143	172

calories

Answer: 285

5.				
	The table shows the number of calories burned during 30	Activity	110 lb	150 lb
m va e: b	minutes of exercise and how the number of calories burned varies according to the weight of the person doing the exercise. For a person weighing 150 pounds, which activity burns the fewest calories?	Moderate jogging	311	425
		Moderate walking	110	150
		Moderate cycling	134	183
		Aerobic dance	193	263
		Racquetball	218	297
		Tennis	163	222

Choose the correct answer below

- O A. Racquetball
- O B. Moderate jogging
- O C. Moderate walking
- O D. Aerobic dance
- 🔘 E. Tennis
- F. Moderate cycling

Answer: C. Moderate walking

6.		
The table shows the five longest rivers in the world.	River	Miles
	Chang jiang-Yangtze (China)	3964
Use the table to determine which river is the longest in the	Amazon (Brazil)	4000
world.	Tenisei-Angara (Russia)	3442
	Mississippi-Missouri (U.S.)	3740
	Nile (Egypt)	4145

Which river is the longest in the world?

- O Tenisei-Angara
- O Mississippi-Missouri
- O Chang jiang-Yangtze
- O Amazon
- 🔘 Nile

Answer: Nile

The table shows the top ten popular breeds of dogs. Use the	Top Ten Popular Breeds of Dogs			
table to answer the following question. Which breed has a greater average weight, the Boxer or the Labrador retriever?	Breed	Average Dog Maximum Height (in inches)	Average Dog Maximum Weight (in pounds)	
The (1) has a greater average weight.	Labrador retriever	25	75	
	German shepherd	26	95	
	Golden retriever	24	80	
	Beagle	15	30	
	Bulldog	26	90	
	Yorkshire terrier	9	7	
	Boxer	25	70	
	Poodle	standard: 26	standard: 70	
	Rottweiler	26	none given	
	Dachshund	9	25	
 (1) Labrador retriever Boxer Answer: (1) Labrador retriever 				
	The table shows the top ten popular breeds of dogs. Use the table to answer the following question. Which breed has a greater average weight, the Boxer or the Labrador retriever? The (1) has a greater average weight. (1) Labrador retriever Boxer Answer: (1) Labrador retriever	The table shows the top ten popular breeds of dogs. Use the table to answer the following question. Top Ten I Which breed has a greater average weight, the Boxer or the Labrador retriever? Breed The (1) has a greater average weight. Labrador retriever German shepherd Golden retriever Beagle Buildog Yorkshire Herrier Boxer Poodle Rottweiler Dachshund Dachshund Answer: (1) Labrador retriever	The table shows the top ten popular breeds of dogs. Use the table to answer the following question. Top Ten Popular Breed Which breed has a greater average weight, the Boxer or the Labrador retriever? Breed Maximum Height (in inches) The (1) has a greater average weight. Labrador 25 German 26 Golden 24 Beagle 15 Buildog 26 Yorkshire 9 Boxer 25 Poodle standard: 26 Standard: 26 Golden 24 Beagle 15 Buildog 26 Standard: 26 Standard: 26 Golden 24 Beagle 15 Buildog 26 Standard: 26 Standard: 26 Golden 24 Beagle 15 Buildog 26 Standard: 26 Standard: 26 Golden 3 Standard: 26 Standard: 26 Boxer Standard: 26 Standard: 26 Standard: 26 Nower: Standard retriever Standard: 26 Standard: 26	

8.	Add.	
	14 + 83	
	The sum is	
	Answer: 97	_
9.	Add.	
	81	
	+ 316	
	81	
	+ 316	
	Answer: 397	

10.	Add.
	14
	22
	+ 31
	The sum is
	Answer: 67
11.	Subtract. Check by adding.
	549
	- 449
	The difference is
	Answer: 100
12.	Subtract.
	66
	- 38
	The difference is
	Answer: 28
13.	Subtract, Check by adding.
	- 357
	The difference is
	Answer: 376
14.	Subtract.
	900
	- 316
	Answer: 584

15.	Subtract. Check by adding.		
	442		
	- 36		
	The difference is		
	Answer: 406		
16.	Subtract.		
	85 – 77		
	The answer is		
	Answer: 8		
17.	Find the perimeter of the figure.	6 feet	9 feet
		10 feet	
	The perimeter is feet.		
	Answer: 25		
18.	Find the perimeter of the figure.	Rectangle] l foot
	ft	2 feet	
	Answer: 6		
19.	Find the perimeter of the figure.	-	
	cm	19 centimeters 8 centimeters 9 centimeters	11 centimeters
		14 centimeters	14 centimeters

Answer: 75

Find the total of 55 44 7 19 and 245 20

20.	Find the total of 55, 44, 7, 19, and 245.
	The total is
	Answer: 370
21.	Find the difference of 68 and 39.
	The difference is
	Answer: 29
22.	What is 645 increased by 83?
	645 increased by 83 is
	Answer: 728
23.	A new notebook computer with DVD player costs \$1423. Derik Muller has \$1499 in his checking account. How much will be left in his checking account after he buys the notebook computer?
	Derik will have \$ remaining in his checking account after he buys the notebook computer.
	Answer: 76
24.	Find the total land area drained by the C and D sub-basins.
	520,000 246,000 188,000 162,000 40,000 A B C D E F
	sq mi

25.	How many more square miles of land is drained by the A sub-basin than the B sub-basin?	Area (in thousands of square miles)	River Basin $500 \\ 510,000 \\ 245,000 \\ 245,000 \\ 189,000 \\ 73,000 \\ 6 \\ B \\ C \\ D \\ E \\ F$
	Answer: 265,000		
26.	Alexander is installing a pen for his dog. The pen will have the shape and dimensions of the figure shown to the right. How many feet of fencing are needed to enclose the the area shown?	96 feet	106 feet 119 feet 72 feet
	Answer: 393		
27.	Evelyn Abrams is reading a 775-page book. If she has just f read to finish the book?	inished read	ding page 279, how many more pages must she
	Answer: 496		
28.	What is the dB rating for live rock music?	20 00 80 60 40 20 10 0 Leaves Rustling Co	Decibel Levels for Common Sounds
	Answer: 102		

29.	How much louder is the sound of snoring than normal conversation?		Decibel Levels for Common Sounds				
		(B)	120	104			
		ls (100-	85			
		cibe	80-				
		De	60- 40- 20				
			20-10-29				
			0				
			Leaves Normal	Live Rock Loud			
			Rustling Conversatio	n Music Snoring relevision			
	dB						
	Answer: 56						
	Allsweit 50						
30.	A permanent game board is made of granite. I	t is in the sl	hape of a square with s	ide lengths of 42 ft. Find the pe	rimeter of		
	The perimeter is feet.						
	Answer: 168						
31.							
	The table on the right shows the number of a p	articular	State	Number of Stores			
	store in ten states. What is the total number of located in the three states with the most stores	stores	Arizona	185			
		· ·	California	27			
	• · · · • • • • • • • • • • • • • • • •		Florida	61			
	A total of stores are located in	the three	Georgia	141			
	states with the most stores.		Illinois	78			
			New York	50			
			Michigan	70			
			Minnesota	60			
			Unio	84			
			Texas	38			
	Answer 410						
32.	A particular state has 2046 miles of urban high the state.	ways and 3	3829 miles of rural high	ways. Find the total highway m	ileage in		
	The total highway mileage in the state is		miles.				
	Answer: 5875						
33.	Round 2,859 to the nearest hundred.						
	The number 2,859 rounded to the nearest hun	dred is					
		L					
	Answer: 2,900						

34.	Round 41,337 to the nearest thousand.
	41,337 rounded to the nearest thousand is
	Answer: 41,000
35.	Estimate the perimeter of the rectangle by first rounding the length of each side to the nearest ten.
	The estimated perimeter is meters.
	Answer: 160
36.	Multiply. 316 $\times 4$ 316
	Answer: 1264
37.	Multiply.
	99 <u>× 66</u>
	The product is
	Answer: 6534

38.	Find the area and the perimeter of the rectangle shown to the right.
	The area of the rectangle is (1)
	The perimeter of the rectangle is (2)
	(1) cubic meters. (2) square meters. meters. meters. meters. square meters. cubic meters.
	Answers 35
	(1) square meters.
	24
	(2) meters.
39.	One triple fudge brownie contains 139 calories. How many calories are in 3 triple fudge brownies?
	Answer: 417
40.	The textbook for a course in biology costs \$95. There are 28 students in the class. Find the total cost of the biology books for the class.
	The total cost is \$
	Answer: 2,660
41.	A plot of land measures 70 feet by 140 feet. Find its area.
	The area of the rectangle is (1)
	(1) 🔘 cubic feet.
	O feet.
	U square leet.
	Answers 9,800
	(1) square feet.

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42. One ounce of nuts contains 196 calories. How many calories are in 13 ounces of nuts?

calories

Answer: 2548

43. The Thespian club at a local community college is ordering T-shirts. T-shirts size S, M, or L cost \$12 each and T-shirts size XL or XXL cost \$15 each. Use the table on the right to find the total cost. (The first row is filled in for you.)

T-Shirt Size	Number of Shirts Ordered	Cost per Shirt	Cost per Size Ordered
S	2	\$12	\$24
М	3		
L	4		
XL	10		
XXL	2		
Total Cost			

T-Shirt Size	Number of Shirts Ordered	Cost per Shirt	Cost per Size Ordered	
S	2	\$12	\$24	
М	3	\$	\$	
L	4	\$	\$	
XL	10	\$	\$	
XXL	2	\$	\$	
Total Cost\$				
Answer	rs 12			
36				
12				

288

44. A plant for a tea company has bagging machines capable of bagging 3000 bags of tea per minute. If the plant runs 19 hours a day, how many tea bags are produced in one day?

The company produces tea bags in one day of operation.

Answer: 3,420,000

45. Divide the following and then check by multiplying.

	5) 385				
	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.				
	○ A. The quotient does not have a remainder. The quotient is				
	○ B. The quotient has a remainder not equal to 0. The quotient is R				
	○ C. The quotient is undefined.				
	Answer: A. The quotient does not have a remainder. The quotient is 77 .				
46.	Divide the following and then check by multiplying.				
	7) 1566				
	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.				
	◯ A. The quotient does not have a remainder. The quotient is				
	○ B. The quotient has a remainder not equal to 0. The quotient isR				
	 ○ C. The quotient is undefined. 				
	Answer: B. The quotient has a remainder not equal to 0. The quotient is 223 R 5 .				
47.	For their wedding, Ben and Jen paid \$11 for each guest's dinner. The total bill was \$2090. How many guests did they have at their wedding?				
	guests				
	Answer: 190				
48.	A truck hauls wheat to a storage granary. It carries a total of 5,616 bushels of wheat in 12 trips. How much does the truck haul each trip if each trip it hauls the same amount?				
	The truck hauls bushels each trip.				
	Answer: 468				
49.	Suppose the elevation of a peak on a certain planet is 31,680 feet. A mile is 5280 feet. How many miles tall is the peak?				
	The peak is miles tall.				
	Answer: 6				

50. Find the average value of the following list of numbers.

	20, 21, 17, 27, 16, 19
	The average value is
	Answer: 20
51.	Evaluate.
	4 ⁴
	4 ⁴ =
	Answer: 256
52.	Simplify.
	40 + 7 • 6
	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.
	\bigcirc A. 40 + 7 • 6 =
	B. The expression is undefined.
	Answer: A. 40 + 7 • 6 = 82
53.	Simplify.
	8÷2•4+6
	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.
	\bigcirc A. 8 ÷ 2 • 4 + 6 =
	B. The expression is undefined.
	Answer: A. 8 ÷ 2 • 4 + 6 = 22
54.	Simplify.
	14 ÷ 2 – 1
	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.
	○ A. 14÷2−1=
	B. The expression is undefined.
	Answer: A. 14 ÷ 2 – 1 = 6

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55. Simplify.

$$49 + \frac{64}{8}$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

$$\bigcirc$$
 A. 49 + $\frac{64}{8}$ = _____

O B. The expression is undefined.

Answer: A. 49 + $\frac{64}{8}$ = 57

56. Simplify.

3 • 4 + 5 • 5

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

○ A. 3 • 4 + 5 • 5 =

B. The expression is undefined.

57. Simplify.

 $\frac{24+8}{2^3-2^2}$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.



O B. The expression is undefined.



58. Simplify.

 $(3+4) \cdot (10-6)$ Select the correct choice below and, if necessary, fill in the answer box to complete your choice. \bigcirc **A.** (3+4) • (10-6) = O B. The expression is undefined. Answer: A. $(3 + 4) \cdot (10 - 6) =$ 28 59. Find the area and perimeter of the square shown to the right. 13 meters The area of the square is (1) The perimeter of the square is (2)(1) \bigcirc meters. (2) O meters. square meters. 0 square meters. Answers 169 (1) square meters. 52 (2) meters. 60. Evaluate the expression for x = 5 and z = 3. 2xz - 3x 2xz - 3x = Answer: 15 61. Evaluate the expression for x = 2 and y = 6. $\frac{3y-8}{x}$ $\frac{3y-8}{x} =$ Answer: 5

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62. Evaluate the expression for x = 22, y = 2, and z = 4.

$\frac{x+3y}{z}$		
$\frac{x+3y}{z} = $		

Answer: 7

63. Evaluate the algebraic expression for the given value.

$x^2 - 2x + 8$, for x = 5	
When $x = 5$, $x^2 - 2x + 8 =$ (Simplify your answer.)	-

Answer: 23

64. Evaluate the following expression for x = 1 and y = 4.

	$\frac{2x+6y}{2x}$
	The answer is
	Answer: 13
65.	Simplify.
	8 + 4 • 7 - 10
	8 + 4 • 7 - 10 =
	Answer: 26
66.	Solve. Check your solution.
	x + 9 = 24
	The solution is x =
	Answer: 15

67.	Solve.
U .	00110.

67.	Solve.
	3x = 36
	The solution is x =
	Answer: 12
68.	Solve the following equation.
	2x - 10 = 0
	x =
	Answer: 5
69.	Solve the equation.
	5n + 35 = 55
	n =
	Answer: 4
70.	Write a fraction to represent the shaded region of the figure.
	A fraction which represents the figure is
	Answer: $\frac{4}{7}$

- 71. Represent the shaded part of the group of circles with **A.** an improper fraction and
 - **B.** a mixed number.



$\ensuremath{\textbf{A}}\xspace.$ The improper fraction which represents the shaded area of the figure group	is	
B. The mixed number which represents the shaded area of the figure group is		

Answers $\frac{9}{4}$ $2\frac{1}{4}$

- 72. Represent the shaded part of the group of triangles with **A.** an improper fraction and
 - **B.** a mixed number.



A. The improper fraction that represents the shaded area of the figure group is	
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B. The mixed number that represents the shaded area of the figure group is ______.

Answers $\frac{11}{4}$ $2\frac{3}{4}$

73. Write a fraction to represent the shaded region of the figure.



Answer:	1	1
	1	2

74. Write a fraction to represent the shaded part of the figure.

	The fraction representing the shaded part is
	Answer: 5/8
75.	Write a fraction to represent the shaded region of the figure. The fraction that represents the shaded region of this figure is
	Answer: 4 9
76.	Represent the shaded part of the group of figures with (a) an improper fraction and (b) a mixed number.
	(a) Write the shaded area as an improper fraction.
	(b) Write the shaded area as a mixed number.
	Answers $\frac{5}{4}$ $1\frac{1}{4}$

77. Represent the shaded part of the group of figures with **(a)** an improper fraction and **(b)** a mixed number.



a. Write the shaded area as an improper fraction.

b. Write the shaded area as a mixed number.

Answers	9 2
	$4\frac{1}{2}$

78. Write a fraction to represent the shaded part of the syringe.



The fraction represented by the shaded parts is

Answer: $\frac{3}{8}$

79. Write a fraction to represent the shaded part of the distance.



The fraction that represents the shaded part is

Answer: $\frac{3}{8}$

80.

Each of the objects shown to the right is divided into equal sections and part of each object is shaded. The shaded part is a fraction of the whole object.

Choose the correct answer below.





Which object represents the fraction $\frac{4}{8}$?

Which object represents the fraction $\frac{1}{7}$?

81.

Each of the objects shown to the right is divided into equal sections and part of each object is shaded. The shaded part is a fraction of the whole object.

Choose the correct answer below.





82.

Each of the figures shown to the right is divided into equal sections, and part of each figure is shaded. The shaded part is a fraction of the whole figure.

Choose the correct answer below.





Which figure represents the fraction $\frac{7}{7}$?

83. In an American Sign Language (A.S.L) class of 15 students, 8 are hearing impaired. What fraction of the students are hearing impaired?

The fraction of t	he students that are hearing im	npaired is		
Answer: 8				

84. Graph the fraction on a number line.







86. Graph the fraction on a number line.

	$\frac{3}{2}$
	Answer:
87.	Find the prime factorization of the following number. 52
	The prime factorization of 52 is
	Answer: $2^2 \cdot 13$
88.	Find the prime factorization of the following number.
	16
	The prime factorization of 16 is
	Answer: 2 ⁴
89.	Find the prime factorization of the following number.
	78
	The prime factorization of 78 is
	Answer: 3 • 2 • 13
90.	Perform the indicated operation.
	$6 \div \frac{7}{11}$
	$6 \div \frac{7}{11} =$ (Simplify your answer.)
	Answer: <u>66</u> 7

91. Perform the indicated operation.

	$\frac{1}{3} \div \frac{7}{6}$
	$\frac{1}{3} \div \frac{7}{6} =$ (Type an integer or a simplified fraction.)
	Answer: 2 7
92.	Find $\frac{1}{4}$ of 140.
	$\frac{1}{4}$ of 140 is (Simplify your answer. Type a whole number, fraction, or mixed number.)
	Answer: 35
93.	Find $\frac{9}{10}$ of 50. Write the answer in simplest form.
	9 10 of 50 is (Simplify your answer.)
	Answer: 45
94.	Insert <, >, or = between the pair of numbers to form a true statement.
	3.799 3.8
	3.7993.8
	Answer: <
95.	Write <, >, or = between the pair of numbers to form a true statement.
	0.755 0.75500
	0.7550.75500
	Answer: =

96.	Round the decimal to the nearest tenth.
	0.94
	0.94 rounded to the nearest tenth is
	Answer: 0.9
97.	Round 0.7131 to the nearest thousandth. $0.7131 \approx$
	Answer: 0.713
98.	Round the monetary amount to the nearest dollar.
	\$90.72
	\$90.72 rounded to the nearest dollar is \$
	Answer: 91
99.	Write as a decimal.
	$3\frac{9}{100}$
	$3\frac{9}{100} =$
	Answer: 3.09
100.	Add the following.
	8.2 + 5.33
	8.2 + 5.33 = (Type an integer or a decimal.)
	Answer: 13.53
101.	Subtract and check the following.
	15 - 3.3
	15 – 3.3 = (Type an integer or a decimal.)
	Answer: 11.7

- 102. A landscape architect is planning a border for a 23.55 feet flower garden shaped like a triangle. The sides of the garden measure 17.4 feet, 23.55 feet, and 22.8 feet. Find the amount of border 17.4 feet 22.8 feet material needed. K The amount of border material needed is feet. (Type an integer or a decimal.) Answer: 63.75 103. The bar graph shows the top five chocolate-consuming The World's Top Chocolatenations in the world. Use this graph to answer the following. Consuming Countries 30 Which country has the greatest chocolate consumption per 26.24 person? 25 21.83 20.94 19.40 18.30 20-Choose the correct answer below. 15 0 Country D
 - Country E 0
 - 0 Country C
 - \bigcirc Country A
 - Country B \bigcirc

Answer: Country E

- Pounds of Chocolate per Person per Year 10-5 В С D А Е Country
- 104. Use the values of the coins given below. Write the value of the group of coins shown to the right. To do so, it is usually easiest to start with the coin(s) of greatest value and end with the coin(s) of least value.



The total value of the group is $\$$	
The total value of the group is $\psi_{[}$	

Answer: 1.30



Penny	Nickel	Dime	Quarter
6	(E)	(A)	13
	C		(2)
\$0.01	\$0.05	\$0.10	\$0.25

Choose the correct answer below.	Select all that apply
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- **A.** 1 dime and 1 nickel
- **B.** 1 dime and 5 pennies
- **C.** 3 nickels and 6 pennies
- D. 3 nickels
- **E.** 2 nickels and 5 pennies
- **F.** 1 dime, 2 nickels and 5 pennies

Answer: A. 1 dime and 1 nickel, B. 1 dime and 5 pennies, D. 3 nickels, E. 2 nickels and 5 pennies

106.	Find the circumference of the circle in terms of π . Then use the approximation 3.14 for π and approximate the circumference.
	a. Find the circumference of the circle in terms of π .
	The exact circumference is ft.
	b. Find the circumference of the circle using 3.14 as an approximation for π .
	The approximate circumference is ft. (Round to the nearest hundredth as needed.)
	Answers 32π 100.48
107.	A 1-ounce serving of cream cheese contains 8.2 grams of saturated fat. How much saturated fat is in 6 ounces of cream cheese?
	g
	Answer: 49.2
108.	The screen of a portable digital device is a rectangle that measures 3.5 inches by 2.6 inches. Find the area of the screen.
	The area is square inches. (Type an integer or a decimal.)
	Answer: 9.1

109. A meter is a unit of length approximately equal to 39.37 inches. If someone is 1.85 meters tall, what is his or her approximate height in inches?

Using the given conversion, someone who is 1.85 meters tall has a height of ______ inches. (Type an integer or a decimal.)

Answer: 72.8345

110. One year, farmers received an average of \$13.035 per bushel of wheat. How much did a farmer receive for selling 100 bushels of wheat?

The farmer received \$. (Round to the nearest cent as needed.)
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Answer: 1303.50

- 111. Perform the indicated operation.
 - 4.6 + 0.03

4.6 + 0.03 = (Type an integer or a decimal.)

Answer: 4.63

112. Find the decimal equivalent of the following fraction.





113. Write as an equivalent decimal.





114. Write $3\frac{17}{20}$ as a decimal.



Answer: 3.85

15.	The pictograph shows last year's fruit production by	Annual Fruit Produ	ction in Top Producing Regions
	the top fruit-producing regions. Which region produced the greatest quantity of fruit?	Northern Region	000000000000
		Mountain Region	
		Lake Region	3
		Central Region	1
		Southern Region	= 15 million bushels
		Coastal Region	

- A. The central region
- O C. The coastal region
- C E. The lake region

- B. The mountain region
- O D. The southern region
- O F. The northern region

Answer: F. The northern region



117.	The pictograph shows last year's fruit production by	Annual	Fruit Product	tion in Top Pi	roducing Regions
	the top fruit-producing regions. Which region	Northorn	Pagion		
	produces about 60 million busnels of fruit?	Mountain	Region		0000
		Southern	Region		
		Coastal	Region		
		Lake	Region		- 20 million hushala
		Central	Region	•	
	Choose the correct answer below.				
	O A. The central region	B. The north	nern region		
	○ C. The southern region	D. The lake	region		
	O E. The coastal region	F. The mou	ntain region		
	Answer: D. The lake region				
118.	The pictograph on the right shows the average numb	per of	د باد باد		
	wildfires in a country between 2006 and 2012.	2006	0000		
	Approximate the number of wildfires	2007	0000	· · · · ·	×
	in 2010.	2008	***	B B B B B B B B B B	
		2009		🔥 🎨 🎨 🍕	
		2010	* * * *	🔥 🍈 🍈	
		2011	***	🔥 🎨 🍕 i	<u>()</u> =
		2012	* * * *	🍐 🎸 👌	12,000 fires
	The number of wildfires in the year 2010 is approximation (Ty	ately pe an integer c	or a decimal.)		
	Answer: 72,000				
119.	The pictograph shows the annual number of wildfires between 2000 and 2005. What was the amount of ind wildfires from 2003 to 2004?	s in a region crease in	2000 2001 2002 2003 2003 2004 2005	Wildfires in	a Region
	The number of wildfires in the region increased by ab	pout	from 200)3 to 2004.	
	Answer: 18,000				

120. The bar graph shows the number of major storms, by month, that have made landfall in a region between 1851 and 2005. In which month did the most major storms make landfall in the region?



In which month did the most major storms make landfall in the region? October August 0 July \bigcirc September Cannot be determined June \cap Answer: August 121. The circle graph is a result of surveying 900 college Parent or guardian's home 280 students. They were asked where they live while attending Off-campus rental 227 college. Use this graph to find where most of these college Campus housing 320 students live. Other arrangements 17 Own off-campus housing 56 Choose the correct answer below. A. Other arrangements O B. Own off-campus housing C. Parent or guardian's home D. Off-campus rental E. Campus housing Answer: E. Campus housing 122. Find the square root. √36 = √36

Answer: 6

123.	Find the length of the third side of the right triangle. 3
	The length of the third side is
	Answer: 5
124.	Sketch the right triangle and find the length of the side not given. If necessary, approximate the length to the nearest thousandth.
	What is the length of the side hot given?
	(Round to the nearest thousandth as needed.)
	Answer: 25
125.	Sketch the right triangle and find the length of the side not given.
	leg = 13, hypotenuse = 85
	The unknown length is (Type an integer or decimal rounded to the nearest thousandth as needed.)
	Answer: 84
126.	Find the ratio of the corresponding sides of the given similar triangles. $21 \qquad 14 \qquad 7 \qquad 6$
	The ratio of the corresponding sides of the first triangle to the second triangle is (Type the ratio as a simplified fraction.)
	Answer: 3 2

127. A triangle is formed by the building's height and shadow. Another triangle is formed by the flagpole's height and shadow. Using the following diagram, find the height of the building.



The height of the building is	feet
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Answer: 1000

128. Draw a tree diagram for choosing a vowel, (a, e, i, o, u) and then a number (1, 2, 3 or 4). Use the diagram to find the number of possible outcomes.





В

129.

Draw a tree diagram for spinning Spinner A 3 times. Use the diagram to find the number of possible outcomes.



Based on the tree, what is the number of possible outcomes?

Choose the correct tree diagram below. <mark>)</mark> A. ОВ. R <mark>()</mark> C. <u>O</u> D.



130. A marble is selected at random from a jar containing 6 red marbles, 4 yellow marbles, and 5 green marbles.



131. Find the perimeter of the following figure.



132. Find the perimeter of the following figure.



133. Find the perimeter of the following figure.



136. A metal strip is being installed around a workbench that is 11 feet long and 4 feet wide. If the stripping costs \$5 per foot, find the total cost of the stripping.

	Total cost = \$
	Answer: 150
137.	Find the perimeter of the top of a square compact case if the length of one side is 18 inches.
	The perimeter is (1)
	 (1) inches. square inches. cubic inches.
	Answers 72
	(1) inches.
138.	A rectangular room measures 13 feet by 12 feet. Find the cost of installing a strip of wallpaper around the room if the wallpaper costs \$0.90 per foot.
	Total cost = \$
	Answer: 45.00
139.	A computer has shape of a rectangular solid. Find the volume of the computer, with dimensions of 3 inches by 3 inches by 3.1 inches.
	The volume of the computer is (1) (3) (Simplify your answer. Type an integer or a decimal.)
	(1) 🔘 in.
	O sq in. O av in
	Answers 27.9
	(1) cu in.
140.	Convert the measurement indicated.
	132 in to feet
	132 in = ft
	Answer: 11

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141. Convert the measurement as indicated.

13 yd to feet		
13 yd =	ft	

Answer: 39

142. Insert <, >, or = in the space between the paired numbers to make the statement true.



144. Use the commutative and associative properties to simplify the expression.

(6 + a) + 6



Answer: a + 12

145.	Find the x- and y-coordinates of the point C.				6 ¹	/				
	The coordinates of C are (Type an ordered pair.)				4-		С			v
		-6	-4	-2	-2-	2	2	4	6	~ ;
					-4-					
					-6-			[

Answer: (2,4)

146. Determine whether each ordered pair is a solution of the given linear equation.

2x + 3y = 13; (5,1), (2,0), (0,1)

Is (5,1) a solution to the given linear equation?

O Yes

🔘 No

Is (2,0) a solution to the given linear equation?

O No

O Yes

Is (0,1) a solution to the given linear equation?

🔘 No

O Yes

Answers Yes

No

No

147.

For the equation, find three ordered pair solutions by completing the table. Then use any two of the ordered pairs to graph the equation.

$$y = \frac{1}{2}x$$

Complete the table below.

x	У
0	
- 2	
4	

Use the graphing tool to graph the equation.



Answers 0



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Answer: 729