Student:	Instructor: Alfredo Alvarez Course: Math 0410 / 0320 Alvarez	Assignment: 04-15-19 M3RDGEOWHOLEFIESTA145N150PPMR
1. Determine the place value of the control of the	6	56 1 15
2. Write the whole number in expand 6190 6190 = (Type you Answer: 6000 + 100 + 90	or answer using plus signs.)	190 000)+1(100)+9(10)+0(1) 00+100+90=
The table shows the number of cal minutes of exercise and how the number of calculations of exercise and how the number of the varies according to the weight of the exercise. For a person weighing calculates will be burned during 30 minutes of the calculations of the calculations.	umber of calories burned Moderate jog person doing the Moderate wa Moderate wa	alking 110 130 cling 142 168

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 140 pounds, which activity burns the second most calories?

Activity	120	lb (140 lb))	
Moderate jogging	344	402		
Moderate walking	120	140		
Moderate cycling	151	176		
Aerobic dance	211	246		
Racquetball	235	274		Mans f
Tennis	166	193	Second	
			Calorin	

Choose the correct answer below

- A. Moderate walking
- &B. Racquetball
- O. Moderate cycling
- O. Tennis
- E. Moderate jogging
- F. Aerobic dance

Answer: B. Racquetball

The table shows the five longest rivers in the world.

Use the table to determine which river is the fifth longest in the world.

River	Miles
Chang jiang-Yangtze (China)	3964
Amazon (Brazil)	4000 - 2
Tenisei-Angara (Russia)	(3442) - 5
Mississippi-Missouri (U.S.)	3740 4
Nile (Egypt)	4145

Which river is the fifth longest in the world?

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

Answer: Tenisei-Angara

 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 German shepherd or the Boxer?

The (1) _____ has a g

has a greater average weight.

Top Ten Popular Breeds of Dogs					
Breed	Average Dog Maximum Height (in inches)	Average Dog Maximum Weight (in pounds)			
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)			

26

9

standard: 26 standard: 70

none given

25

greateaverage weight

(1)

Boxer

German shepherd

Answer: (1) German shepherd

7. Add.

71 + 26

The sum is

Answer: 97

+ 26

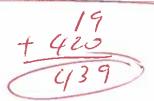
Poodle

Rottweiler

Dachshund

8. Add.

19 + 420



9. Subtract.

The difference is

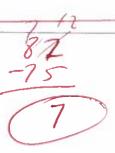
Answer: 25

10. Subtract.

82 - 75

The answer is

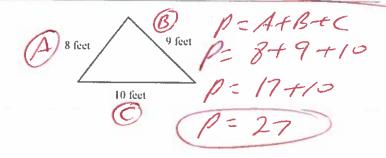
Answer: 7



11. Find the perimeter of the figure.

The perimeter is feet.

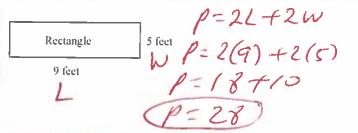
Answer: 27



12. Find the perimeter of the figure.

ft

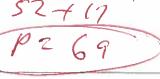
Answer: 28

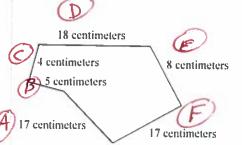


13.

Find the perimeter of the figure. P = A + B + C + D + E + F

P=17+5+4+18+8+17 P= 22 +4 +18+8+17 P= 26 +18+8+17 P= 44+8+17

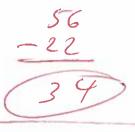




14. Find the difference of 56 and 22.

The difference is

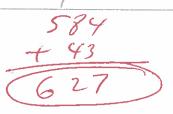
Answer: 34



15. What is 584 increased by 43?

584 increased by 43 is

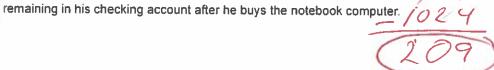
Answer: 627



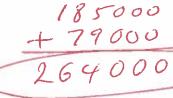
16. A new notebook computer with DVD player costs \$1024. Derik Muller has \$1233 in his checking account. How much will be left in his checking account after he buys the notebook computer?

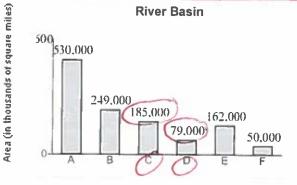
Answer: 209

Derik will have \$



17. Find the total land area drained by the C and D sub-basins.

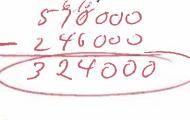




sq mi

Answer: 264,000

18. 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 500570,000 246,000 185,000 162,000 75,000

sq mi

Answer: 324,000

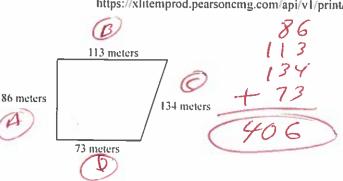
40,000

19.

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 meters of fencing are needed to enclose the the area shown?

P= 86+113+134+73

Answer: 406

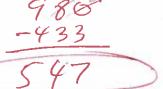


20. Evelyn Abrams is reading a 980-page book. If she has just finished reading page 433, how many more pages must she

read to finish the book?

pages

Answer: 547



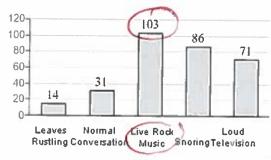
21. What is the dB rating for live rock music?



dB

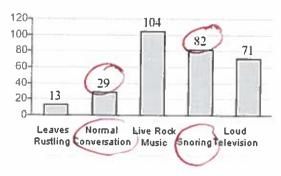
Answer: 103

Decibel Levels for Common Sounds



22. How much louder is the sound of snoring than normal conversation?

Decibel Levels for Common Sounds



dB

23.	A permanent game board is made of granite. It is in the shap the square playing board.			
	The perimeter is feet. 43 743	p=414	(N=43	XY
	Answer: 172	P=172		172
24.				
	The table on the right shows the number of a particular	State	Number of Stores	
	store in ten states. What is the total number of stores	Arizona	55	
	located in the three states with the most stores?	California	66	
	, (Florida	(128)	
	A total of stores are located in the three	Georgia	83	
	states with the most stores. $/28$	Illinois	28	
	160	New York	34	
	177	Michigan	86	
	+ 81	Minnesota	(194)	-
	1400	Ohio	41	
	(409)	Texas	87	
	Answer: 409			
25.	A particular state has 2037 miles of urban highways and 3828 the state. The total highway mileage in the state is miles. Answer: 5865	20	ways. Find the total highways	ay mileage in
_		30	6)	
26.	Round 274 to the nearest ten.	2/4=	- 517Ce	t < 5
	274 rounded to the nearest ten is	1	de not 1	t<5 mel up
	Answer: 270	270 2		
27.	Round 185 to the nearest ten.	185=	since 5	> > 5
	185 rounded to the nearest ten is	7	YES roun	d up
	Answer: 190	190 =		
28.	Round 1,888 to the neares hundred	180	38 z sina Yes vo.	820
	The number 1,888 rounded to the nearest hundred is	. 1	Yes vo.	du p
	Answer: 1,900	1900) =	

29.	Round	195	to	the	nearest	ten.

195 rounded to the nearest ten is

Answer: 200

30. Round 86,348 to the nearest thousand.

86,348 rounded to the nearest thousand is

Answer: 86,000

348= Since 365 du not rounding

31. Estimate the perimeter of the rectangle by first rounding the length of each side to the nearest

ten.

69 meters

Rectangle

The estimated perimeter is

meters.

Answer: 160

32.

Multiply.

83

× 6

83 6

Answer: 498

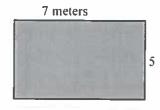
33. Multiply.

46

× 69

The product is

34. Find the area and the perimeter of the rectangle shown to the right.



P=2(+2W P=2(7)+2(r)

P=14+10

5 meters

The area of the rectangle is

A=LW

The perimeter of the rectangle is

(2)

- (1) meters.
- (2) meters.
- square meters.
- cubic meters.
- cubic meters.
- square meters:

Answers 35

- (1) square meters.
- 24
- (2) meters.

35. Estimate the product by rounding each factor to the nearest hundred.

694×164

694 × 164 ≈

Answer: 140,000

694 × 164= 700 x 200 =

140,000

127

36. One triple fudge brownie contains 127 calories. How many calories are in 13 triple fudge brownies?



1(N) 2/27 (13) cross mult

N=1651 Answer: 1651

37. A plot of land measures 70 feet by 160 feet. Find its area.

The area of the rectangle is (1)

(1) Cubic feet. square feet. feet.

Answers 11,200

(1) square feet.

38. One ounce of nuts contains 167 calories. How many calories are in 15 ounces of nuts?

1 (N) 2 /67 (15) (russ mult calories

Answer: 2505

39. A plant for a tea company has bagging machines capable of bagging 3000 bags of tea per minute. If the plant runs 24 hours a day, how many tea bags are produced in one day?

tea bags in one day of operation. $(3000)(24 \text{ hours}) = (3000)(24)(60)^{1/2} = (4320,000)(4,320,000) = (4,320,000)$

The company produces

N=2505

40. Find the following quotient.

Answer: 4,320,000

 $22 \div 2$

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



 \bigcirc A. 22+2=

(Simplify your answer.)

B. The answer is undefined.

Answer: A. 22 + 2 = 11 (Simplify your answer.)

41. Find the quotient.

Select the correct choice below and fill in any answer boxes in your choice.



62

- B. The answer is undefined.

Answer: A. $\frac{24}{4} =$

42. Find the following quotient.

20 + 4

 \bigcirc A. 20 + 4 =

Answer: A. 20 + 4 =

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



B. The answer is undefined.

5

(Simplify your answer.)

(Simplify your answer.)

48. Find the value of the expression.

5²

5² =

Answer: 25



49. Evaluate.

4

4⁴ =

Answer: 256

PEMDAS 4.

4. 4. 4. 4 = 16. 4. 4 = 64. 4 = 16 64 X 4 64 2-6

50. Simplify.

15+9+6

PEM DAS

15+9.6=

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

OA. 15+9-6=

B. The expression is undefined.

Answer: A. 15 + 9 • 6 =

454

69=

51. Simplify.

10+2·5+6 (EMDAS)

10-205-6=

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

- OA. 10+2-5+6=
- B. The expression is undefined.

Answer: A. 10 + 2 • 5 + 6 =

- 25 + 6
- 31=

52. Simplify.

24+3-3 (EM)/

24-3-32

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

8-3 =

- \bigcirc A. 24 + 3 3 =
- O B. The expression is undefined.

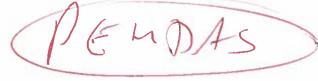
Answer: A. 24 + 3 - 3 =

5



53. Simplify.

$$47 + \frac{9}{3}$$



47+ 9 47+ 3=

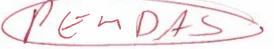
Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

- \bigcirc A. 47 + $\frac{9}{3}$ =
- O.B. The expression is undefined.

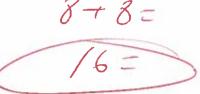


Answer: A. $47 + \frac{9}{3} = 50$

54. Simplify.



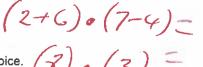
Select the correct choice below and, if necessary, fill in the answer box to complete your choice.



55. Simplify.

$$(2 \div 6) \cdot (7 - 4)$$

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

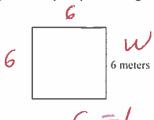


$$\bigcirc$$
 A. $(2+6) \cdot (7-4) =$

$$\bigcirc$$
 B. The expression is undefined.

Answer: A.
$$(2+6) \cdot (7-4) = 24$$

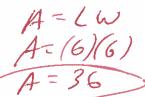
56. Find the area and perimeter of the square shown to the right.



The area of the square is

(2)

The perimeter of the square is



(1) meters. square meters.

square meters.

(2) O meters.

Answers 36

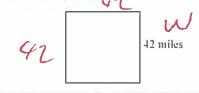
(1) square meters.

24

(2) meters.

A= (6)(6) A= 36 P= 2L+2W P= 2(6)+2(6) P=24

57. Find the area and perimeter of the square shown to the right.



The area of the square is

		1
The perimeter of the square is	<i>(</i> 21)	
The permittee of the equals is	(-/	

- (1) O square miles.
- (2) miles.
- miles.
- square miles.

Answers 1764

(1) square miles.

168

(2) miles.

58. Evaluate the expression for z = 3.

4 + 5z =

Answer: 19

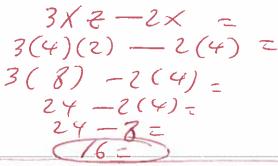
PEMDAS

4+52= 4-+15=

59. Evaluate the expression for x = 4 and z = 2.



Answer: 16



60. Evaluate the expression for x = 2, y = 3, and z = 4.

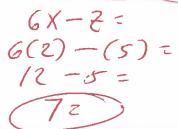
The answer is

Answer: 5

- (4) (2) + (3) =
- 61. Evaluate the expression for x = 2 and z = 5.

6x - z =

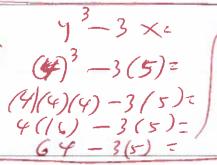
Answer: 7

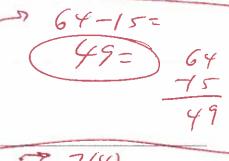


62. Evaluate the following for x = 5 and y = 4.

The answer is

Answer: 49

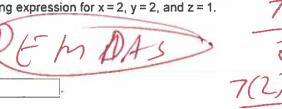


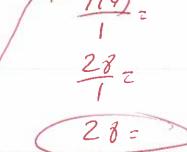


63. Evaluate the following expression for x = 2, y = 2, and z = 1.

The answer is

Answer: 28





64. Evaluate the expression for x = 2 and y = 6.

$$\frac{2y-6}{x} = \frac{(6)-6}{(2)} = \frac{(6)-6}{(2)}$$

65. Evaluate the expression for x = 13, y = 4, and z = 3.



$$\frac{x+2y}{z} =$$

Answer: 7

- X+24 =

66. Evaluate the algebraic expression for the given value.

$$x^2 - 3x + 4$$
, for $x = 6$

When x = 6, $x^2 - 3x + 4 =$ (Simplify your answer.)

Answer: 22

- X =3 X+4 =
- (G) 2-3(G)+Y=

(6)(6) -3(6)+Y=

36-3(6)TY=

36-18-4=

67. Decide whether the number is a solution of the equation.

Is 14 = solution of n - 11 = 3?

- No
- Yes

Answer: Yes

n - 11 = 3



3 = 3

Good

68. Decide whether the number is a solution of the equation.

is 4 a solution of 29 = 70n?

- Yes
- No

Answer: No

29=70n

29 = 70 (4)

29 # 280







69.

Determine whether 4 is a solution of the equation 7x + 5 = 30.

Answer: No

Is 4 a solution?

71+5=30 7(4) +5 = 30

- Yes
- No

28+5 = 30

33 + 30

Decide whether the number is a solution of the equation.

Is 19 a solution of 2(n - 12) = 14?

- No
- Yes

Answer: Yes

2(11-12)=/4

2 ((19) -12) = 14

2(19-12)=14

2(7) = 14

71. Decide whether the number is a solution of the equation.

Is 6 a solution of 3f = 24 - f?

- No

Answer: Yes

3 F = 24-F

3(6) = 24 - (6)18=24-6

Good

72. Determine which numbers in the set are solutions of the equation.

n-4=10; {12, 14, 16}

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

OA. in the set $\{12, 14, 16\}$ is a solution of the equation n-4=10. 10=10

B. None of the numbers in the set are solutions of the equation

Good

Answer: A, in the set $\{12, 14, 16\}$ is a solution of the equation n-4=10.

73. Determine which numbers in the set are solutions of the equation.

4x - 5 = 2x + 21; $\{5, 9, 13\}$

4x-5=2x+21 4(13) -5 = 2(13)+21

Select the correct choice below and, if necessary, fill in the answer box to complete your choice. 52-5=26+21

A. in the set $\{5, 9, 13\}$ is a solution of the equation 4x - 5 = 2x + 21.

47 = 47

B. None of the numbers in the set are solutions of the equation.

Good

Answer: A.

13

in the set $\{5, 9, 13\}$ is a solution of the equation 4x - 5 = 2x + 21.

17 of 42

74. You are given the following equation: 3n + 2 = 17. Which of the following is a solution to the equation?

Choose

the correct answer below.	(hz
	(11-

- \bigcirc A. n=0
- B. n = 17
- \bigcirc C. n=5
- \bigcirc D. n=3

Answer: C. n = 5

3142=17 3(5)+2=17 15+2=17 17=17

75. Simplify.

Answer: 128



76. Simplify.

$$6 + 7 \cdot 4 - 11$$

Answer: 23

DE HDAS

34-11 =

77. Solve. Check your solution.

$$x + 9 = 20$$

The solution is x =

Answer: 11

X+9=20 (11) 49=20 149=23 20 = 70

23=

Good

78. Solve.

$$7x = 14$$

Answer: 2

Chele 7X=14 7(2)=14

14=14

79. Solve the following equation.



Chick 6K-6= 0

$$6x - 6 = 0$$

6(1)-6=0 6-6=0

80. Solve the equation.

we the equation.
$$5h + 25 = 55$$

$$5n + 25 = 55$$

Answer: 6

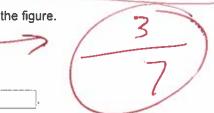
$$5n = 30$$

 $5n = 30$
 $5n = 30$
 $5n = 6$

55=55 Good

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

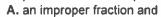




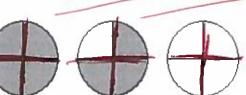
A fraction which represents the figure is

Answer: 3

82. Represent the shaded part of the group of circles with



B. a mixed number.







A. 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 7

83. Represent the shaded part of the group of triangles with

- A. an improper fraction and
- B. a mixed number.











-4/7 - (4) 3 ken

A. The improper fraction that represents the shaded area of the figure group is

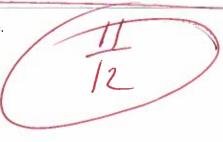
B. The mixed number that represents the shaded area of the figure group is

Answers $\frac{7}{4}$

 $1\frac{3}{4}$

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





The fraction which represents the shaded region is

Answer: 11 12

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



The fraction representing the shaded part is

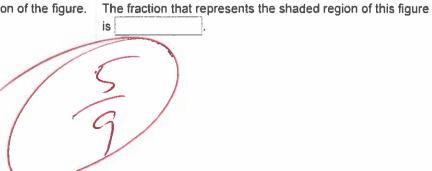


86.

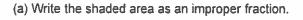
Write a fraction to represent the shaded region of the figure.



Answer: 5



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

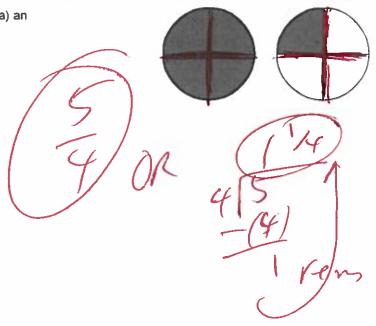


(b) Write the shaded area as a mixed number.

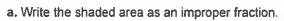


Answers 5/4

 $1\frac{1}{4}$



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



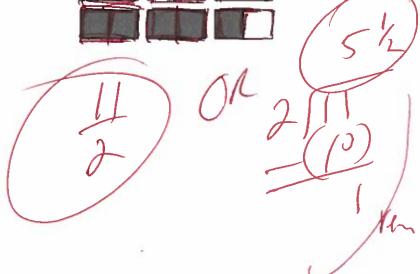


b. Write the shaded area as a mixed number.



Answers 11 2

 $5\frac{1}{2}$



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

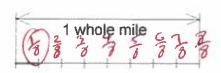


The fraction represented by the shaded parts is

Answer: 3 8



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



The fraction that represents the shaded part is

Answer: 1 8

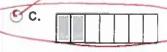
91. Each of the objects shown to the right is divided into equal sections and part of each object is shaded. The shaded part is a fraction of the whole object.

Which object represents the fraction $\frac{2}{7}$?

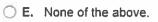
Choose the correct answer below.

4 A		
) A.		
		1







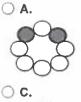




92. Each of the objects shown to the right is divided into equal sections and part of each object is shaded. The shaded part is a fraction of the whole object.

Which object represents the fraction $\frac{3}{8}$?

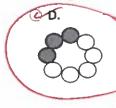
Choose the correct answer below.







None of the above.



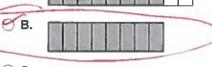
Answer:

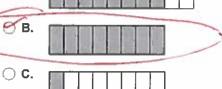
93. Each of the figures shown to the right is divided into equal sections, and part of each figure is shaded. The shaded part is a fraction of the whole figure.

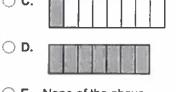
Which figure represents the fraction $\frac{8}{8}$?

Choose the correct answer below.











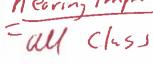
Answer:



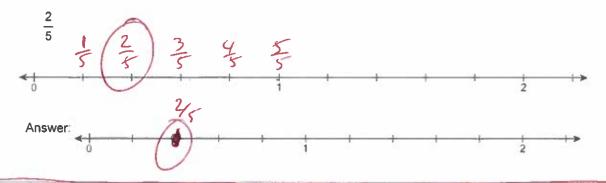
94. In an American Sign Language (A.S.L) class of 30 students, 29 are hearing impaired. What fraction of the students are hearing impaired?

The fraction of the students that are hearing impaired is

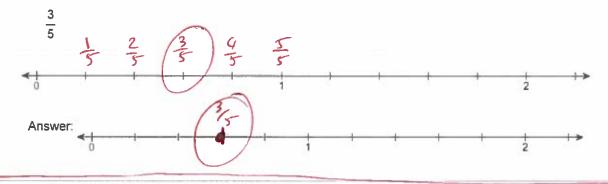




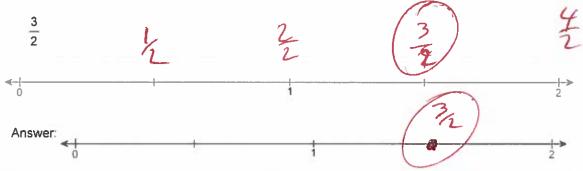
95. Graph the fraction on a number line.



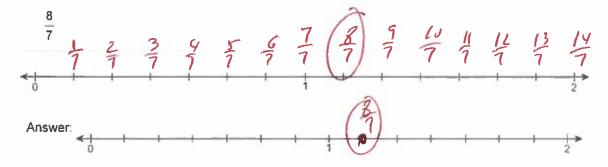
96. Graph the fraction on a number line.



97. Graph the fraction on a number line.



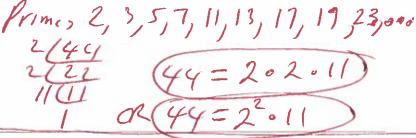
98. Graph the fraction on a number line.



00	Write the	number	11 20 2	product	of	nrima	factore
33.	AALIKE KLIE	HOHIDEL .	44 G3 G	product	U1	DI II II E	lactors.

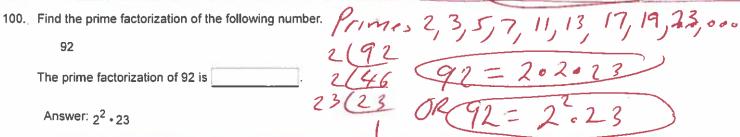
44 =

Answer: 22.11



The prime factorization of 92 is

Answer: 22 . 23

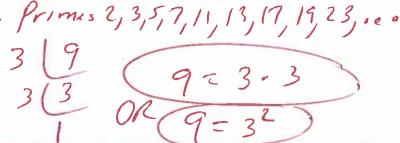


101. Find the prime factorization of the following number.

9

The prime factorization of 9 is

Answer: 32

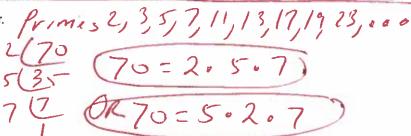


102. Find the prime factorization of the following number.

70

The prime factorization of 70 is

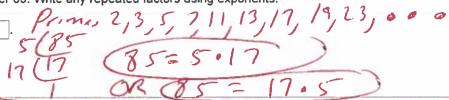
Answer: 5 • 2 • 7



103. Find the prime factorization of the number 85. Write any repeated factors using exponents.

The prime factorization is

Answer: 5 • 17



104. Write the fraction in lowest terms.

Answer: 1

Primes 2, 3, 5, 7, 11, 13, 17, 18, 23, 11.

25 0 47

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105.

Write the fraction in lowest terms.

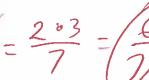


terms.

27/49

42 =

42 - 2.3.7



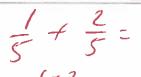
106. Add.

$$\frac{1}{5} + \frac{2}{5}$$

$$\frac{1}{5} + \frac{2}{5} =$$

(Simplify your answer. Type an integer or a fraction.)

Answer: 3





107. Add and simplify. Primes 2,3,5,7,11,13,17,19,23

$$\frac{1}{12} + \frac{7}{12}$$

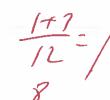
$$\frac{1}{12} + \frac{7}{12} =$$

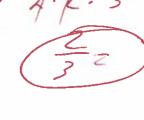
(Type an integer or a simplified fraction.)

Answer: 2

2/4

26

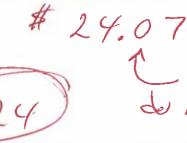




108. Round the monetary amount to the nearest dollar,

\$24.07 rounded to the nearest dollar is \$

Answer: 24

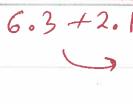


Le not runly

109. Add.

$$6.3 + 2.1$$

Answer: 8.4



+201 up 804 decimils 110. Add the following.

2.1+5.16=

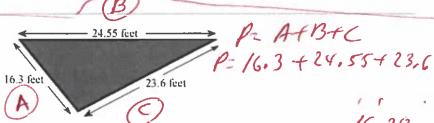
2.1 + 5.16

(Type an integer or a decimal.)

2.1 + 5.16 =

Answer: 7.26

111. A landscape architect is planning a border for a flower garden shaped like a triangle. The sides of the garden measure 16.3 feet; 24.55 feet, and 23.6 feet. Find the amount of border material needed.



The amount of border material needed is (Type an integer or a decimal.)

feet.

24,55

Answer: 64.45

112. The bar graph shows the top five chocolate-consuming nations in the world. Use this graph to answer the following.

Which country has the greatest chocolate consumption per person?

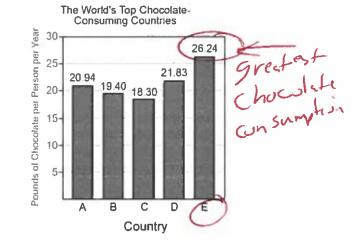
Choose the correct answer below.

Country E Country D

Country C

Country B

Country A



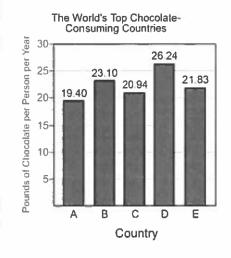
Answer: Country E

113. The bar graph shows the top five chocolate-consuming nations in the world. Use this graph to answer the following.

Make a chart listing the countries and their corresponding chocolate consumptions in order from greatest to least.

Complete the chart below.

Country	Pounds of Chocolate per Person
(1) D	26.24
(2) B	230/0
(3) E	21083
(4)	20.94
(5) A	19.40



- (1) O Country A
- Country B
- (2) Country B
- Country E
- (3) O Country C O Country A Country B

O Country C O Country E

Country D

- Country A
 - Country D Country C
- Country B
- Country D Country E

- (4) O Country A
 - Country B
 - Country E
 - Country C
 - O Country D

- (5) Country E
 - Country D
 - Country A
 - Country C

- Answers (1) Country D
 - 26.24
 - (2) Country B
 - 23.10
 - (3) Country E
 - 21.83
 - (4) Country C
 - 20.94
 - (5) Country A
 - 19.40

114. 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. Nickel Dime Quarter \$0.01 \$0.05 \$0.10 The total value of the group is \$ Answer: 1.50 115. Use the values of the coins given to the right. Name the different ways that Penny Nickel Dime Quarter coins can have a value of \$0.17 given that you may use no more than 10 coins. \$0.05 \$0.10 50.01\$0.25 Choose the correct answer below. Select all that apply. A. (3 nickels and 2 pennies B. 3 nickels and 6 pennies C. (1 dime and 7 pennies 9 D. 2 nickels and 7 pennies E. 1 dime, 2 nickels and 3 pennies 4. 1 dime, 1 nickel and 2 pennies Answer: A. 3 nickels and 2 pennies, C. 1 dime and 7 pennies, D. 2 nickels and 7 pennies, F. 1 dime, 1 nickel and 2 pennies 116. Find the circumference of the circle in terms of π . Then use the approximation 3.14 for π and approximate the 20 N circumference. a. Find the circumference of the circle in terms of π . The exact circumference is b. Find the circumference of the circle using 3.14 as an approximation The approximate circumference is ft. (Round to the nearest hundredth as needed.) = 62.80 Answers 20π 62.80

117. The pictograph shows last year's fruit production by the top fruit-producing regions. Which region produced the greatest quantity of fruit?

Annual Fruit Produ	ction in Top Producing Regions
Coastal Region	(09000000000000000000000000000000000000
Central Region	greates
Northern Region	33
Mountain Region	94
Southern Region	= 20 million bushels
Lake Region	3

Which region produced the greatest quantity of fruit?

- A. The mountain region
- C. The lake region
- E. The central region

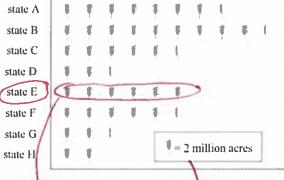
- B. The southern region
- O. The northern region
- The coastal region

Answer: F. The coastal region

118. The pictograph on the right shows the number of acres devoted to wheat production in the selected states.

Approximate the number of acres of wheat planted in state E.

Annual wheat Acreage in Selected Top States



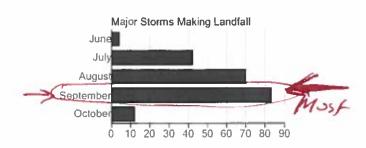
million acres.

The number of acres of wheat planted in state E is approximately

(Type an integer or a decimal.)

119.	The pictograph shows last year's fruit production by the top fruit-producing regions. Which region produces about 255 million bushels of fruit?	Annual Fruit Production in Top Producing Regions	
		Coastal Region	
		Mountain Region	
		Central Region	
		Southern Region	
		Northern Region = 30 million bushels	
		Lake Region	
	Choose the correct answer below.	8 2 - 1 8.5	
	○ A. The northern region	B. The central region	
	C. The lake region	D. The southern region $(3.5)(3.)$	
	E. The mountain region	F. The coastal region 255.0=	
	Answer: F. The coastal region	(255,	
120.	120. The pictograph on the right shows the average number of wildfires in a country between 2006 and 2012. Approximate the number of wildfires in 2011.		
٠			
	14000	2009	
	2010 5 6 0 0 0 2011 2012 14,000 fires		
The number of wildfires in the year 2011 is approximately (Type an integer or a decimal.)			
	Answer: 63,000	(4.5)(14000) =	
	Allower, dojedo	(63000)	
121. The pictograph shows the annual number of wildfires in a region Wildfires in a Region			
121.	between 2000 and 2005. What was the amount of de		
	wildfires from 2003 to 2004?	2001 2222	
	2002 AAAAAAA 2003 AAAAAAAA 2004 AAAAA		
		A=14,000 fires 2005 A A A A A A	
	The number of wildfires in the region decreased by a	bout from 2003 to 2004. 2003 -200 4	
	14660 16	2 10-42= X YEAR YEAR	
	Answer: 77,000 / 565	- 4 - (6 - 2)	
1100000	1 7	5 10 - 4.5 -	
	70000	5	
	500000		
	(71)		

122. 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

September

August

June

July

Cannot be determined

Answer: September

The circle graph is a result of surveying 700 college students. They were asked where they live while attending college. Use this graph to find where most of these college students live.



Choose the correct answer below.

- A. Own off-campus housing
- OB. Off-campus rental
- C. Parent or guardian's home
- O. Campus housing
- E. Other arrangements



Own off-campus housing 72

Answer: C. Parent or guardian's home

124. Find the square root.

 $\sqrt{4} =$

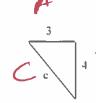
 $\sqrt{4}$

Answer: 2

7=

125.

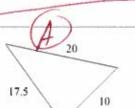
Find the length of the third side of the right triangle.



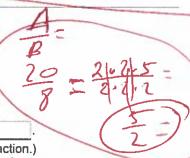
The length of the third side is

Answer: 5

126. Find the ratio of the corresponding sides of the given similar triangles.



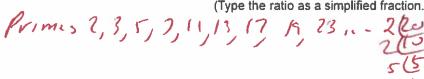




The ratio of the corresponding sides of the first triangle to the second triangle is

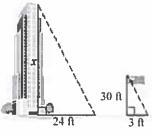
(Type the ratio as a simplified fraction.)

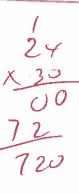
Answer: 5





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.

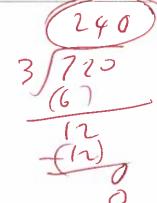




The height of the building is

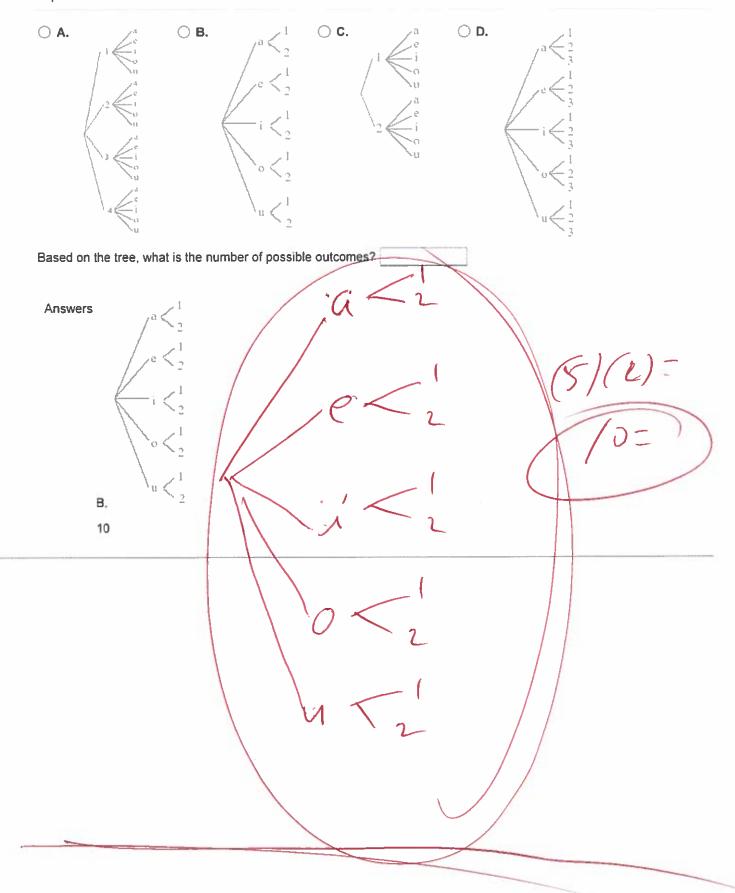
Answer: 240

feet.



33 of 42

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

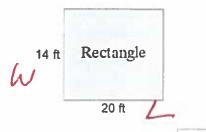


35 of 42

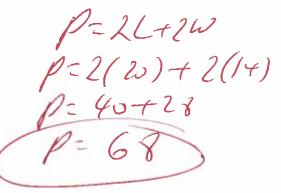
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129. Draw a tree diagram for spinning Spinner A 3 times. Use Choose the correct tree diagram below. the diagram to find the number of possible outcomes. (A. () B. Spinner A OC. O D. Based on the tree, what is the number of possible outcomes? **Answers** C. 27 130. A marble is selected at random from a jar containing 6 red marbles, 2 yellow marbles, and 4 green marbles, Primas 2,3,5,7,1,17,17,17,23, ... What is the probability that the marble is red? The probability that the marble is red is (Type an integer or a simplified fraction.) Answer: 1 red + yellow + green -2

131. Find the perimeter of the following figure.



Perimeter =



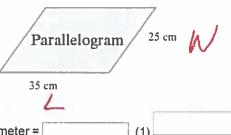
(1) O ft

o sq. ft

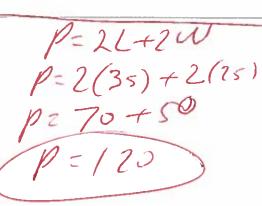
Answers 68

(1) ft

132. Find the perimeter of the following figure.



Perimeter =



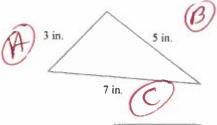
(1) sq. cm

O cm

Answers 120

(1) cm

133. Find the perimeter of the following figure.



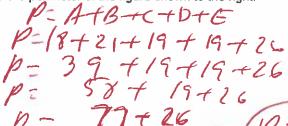
The perimeter is

- (1) O sq. in.
 - O in.

Answers 15

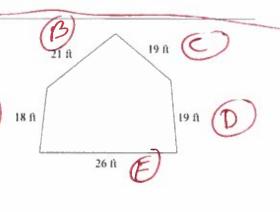
(1) in.

134. Find the perimeter of the figure shown to the right.



Perimeter =



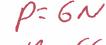


- (1) (1) ft.
 - o sq. ft.

Answers 103

(1) ft.

135. Find the perimeter of the regular polygon shown to the right.

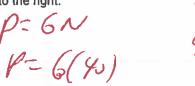


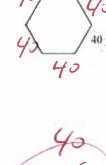
Perimeter =

(1) sq yd O yd

Answers 240

(1) yd





136. Find the perimeter of the regular polygon shown to the right.

P=4N P=4(47)

Perimeter =

- (1) sq in.

Answers 188

 \bigcirc in.

(1) in.



137. A polygon has sides of length 4 feet, 2 feet, 1 feet, 6 feet, and 3 feet. Find its perimeter.

Perimeter =

P-A+B+C+D+E

- P=4+2+1.+6+3 P=6+1+6+3 P=7+6+3

Answers 16

o sq. ft

(1) (1) ft.

(1) ft.

P= 13+3

138. If a playing field is 45 yards wide and 120 yards long, what is the perimeter?



45 yd W

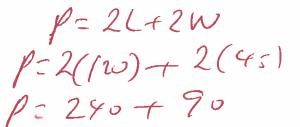
120 yd

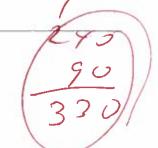
	4
Perimeter =	(1)

- (1) O yd
 - sq. yd

Answers 330

(1) yd





142. Find the distance around the regular pentagon shown to the right.



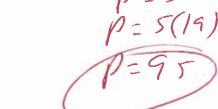
The distance around the figure is _____ (

4. .



Answers 95

(1) m.

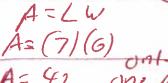


p = 5N p = 5(19) p = 95

143. A drapery panel measured 6 ft/by 7 ft. Find how many square feet of material are needed for three panels.

The material needed for three panels is

Answer: 126



one panel (126

144. Convert the measurement indicated.

48 in to feet

Answer: 4

sq ft.

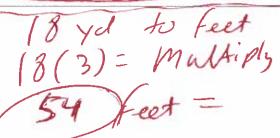
4 Feet =

(2) 43 (43)

145. Convert the measurement as indicated.

18 yd to feet

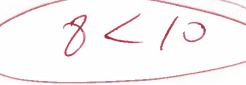
Answer: 54



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

8 __ 10

8 (1) 10



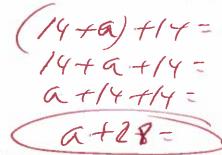
(1) () >

Answer: (1) <

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

$$(14 + a) + 14$$

Answer: a + 28

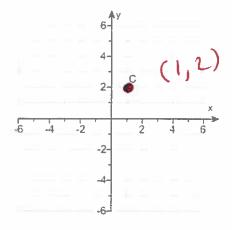


148.

Find the x- and y-coordinates of the point C.

The coordinates of C are (Type an ordered pair.)

(1, 2) 1 risht, 2 up



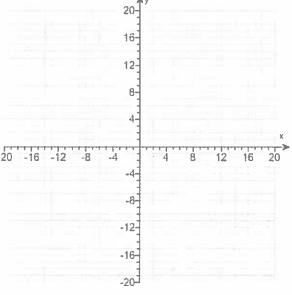
Answer: (1,2)

149.

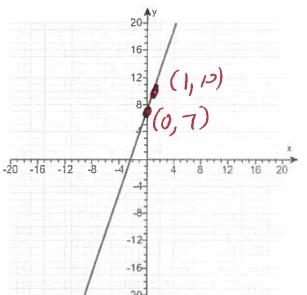
Graph the equation.

$$y = 3x + 7$$

Use the graphing tool to graph the line.



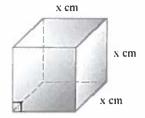
Answer:



y = 301+7 y = 301+7 y = 3(1)+7 y = 3(1)+7 y = 3+7

X 9 07 1/2

150. The function V(x) = x³ may be used to find the volume of a cube with side length x. Find the volume of a cube whose side is 6 centimeters.



 $V(G) = X^{3}$ $V(G) = (G)^{3}$ $V(G) = (G)^{3}$ V(G) = 36(G)



The volume is

cubic centimeters. (Type an integer of a decimal.)

Answer: 216

V(6) = 2/6