Student:	Instructor: Alfredo Alvarez	Assignment: $02-09-19$
Find the perimeter of the figure.	ADD ALL SIDES A 5 feet	MATH5THGRADEWARMUP149e OZ-17-19 OZ-18-19 OZ-25-12 P= A+B+C
The perimeter is 23 fe	eet.	P= 5+8+10 P= 13+10
Allower, 20		(P223)
Find the perimeter of the figure. ft Answer: 6	ADD ALL SIDES Rectangle 2 feet L= 2	(W=1) p=2L+2W $P=2(2)+2(1)$ $P=4+2$ $P=6$
Find the perimeter of the figure. $P = A + B + B + B + B + B + B + B + B + B +$	79719 B	9 centimeters E
	5 meters 10 meters 11 meters $E = 10 - 5$	P=A+B+(+D+E+F P=S+S+10+11+5+6 P=10+10+11+5+6 P=20+11+5+6 P=31+5+6 P=36+6 P=42

5. A new notebook computer with DVD player costs \$1373. Derik Muller has \$1444 in his checking account. How much will be left in his checking account after he buys the notebook computer?

Derik will have \$

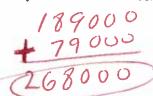


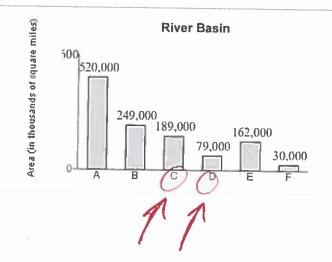
remaining in his checking account after he buys the notebook computer.

-1373 (71)

Answer: 71

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

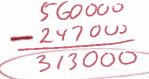


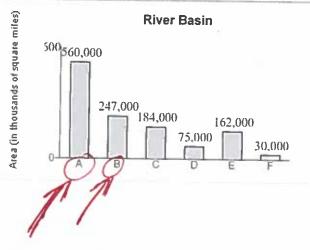


268000 sq mi

Answer: 268,000

7. How many more square miles of land is drained by the A sub-basin than the B sub-basin?



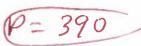


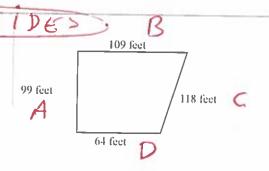
313000 sq mi

Answer: 313,000

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?

rea shown? P = A + B + C + D P = 99 + 109 + 118 + GY P = 208 + 118 + GY P = 326 + GY





9. Evelyn Abrams is reading a 971-page book. If she has just finished reading page 967, how many more pages must she read to finish the book?



Answer: 4

10. A permanent game board is made of granite. It is in the shape of a square with side lengths of 42 ft. Find the perimeter of the square playing board.

The perimeter is

feet.

Answer: 168

11. The table on the right shows the number of particular stores in ten states. Which state has the most stores?

has the most stores.

State	Number of Stores	
Α	34	
В	123	
С	71	
D	43	
E	75	
F	62	
G	51	
Н	79	
K	49	
L	108	

The Top States for the Stores

(1) O A O E O K

Answer: (1) B

12. The table on the right shows the number of a particular store in ten states. What is the total number of stores located in the three states with the most stores?

A total of

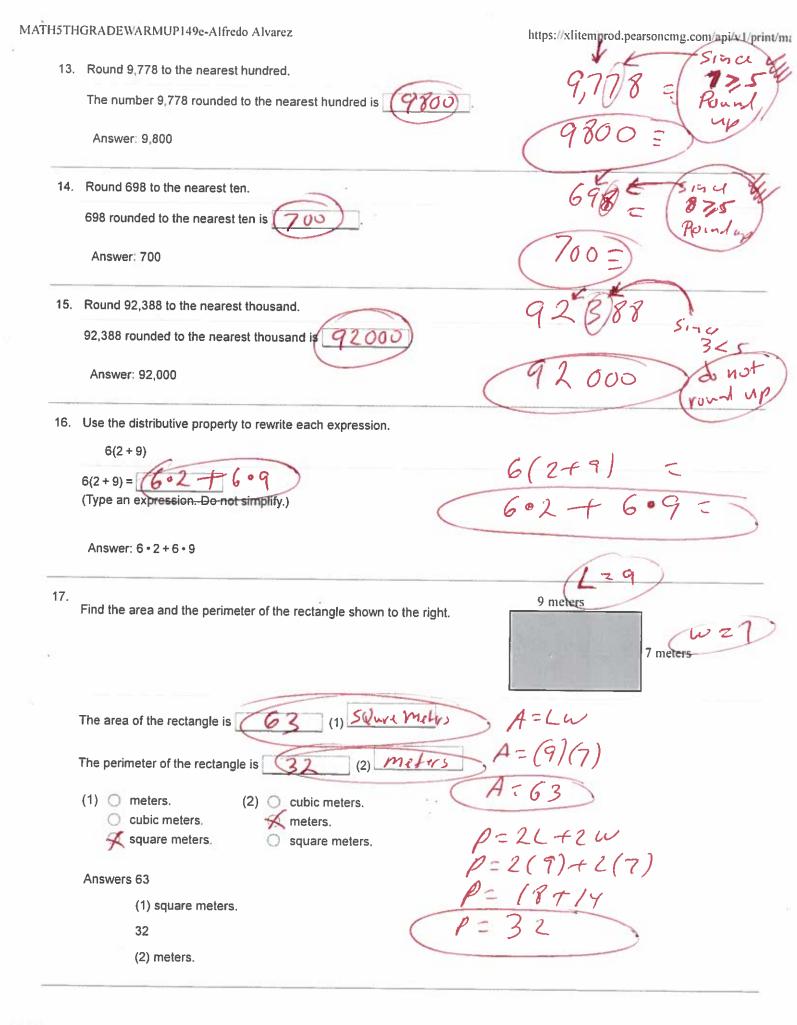
stores are located in the three

100

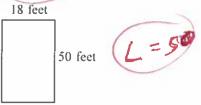
states with the most stores.

61

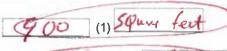
State	Number of Stores
Arizona	84
California	100
Florida	64
Georgia	(161)
Illinois	66
New York	67
Michigan	21
Minnesota	90
Ohio	96
Texas	89



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



The area of the rectangle is 900



4

The perimeter of the rectangle (s

- (1) X square feet.
 - cubic feet. feet.
- (2) O cubic feet.

square feet.

of feet.

P=26+2W P=2(50)+2(17) = 100 + 36

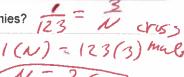
Answers 900

(1) square feet.

calories

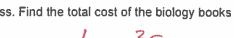
- 136
- (2) feet.

19. One triple fudge brownie contains 123 calories. How many calories are in 3 triple fudge brownies? 123 = 20 cross



Answer: 369



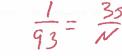


The textbook for a course in biology costs \$93. There are 35 students in the class. Find the total cost of the biology books for the class.

The total cost is \$



Answer: 3,255



	21.	Cabot Creamery is packing a palette of 20-lb boxes of of boxes on the pallet, and each layer is five boxes wide	cheddar cheese to send to a local restaurant. There are three layers by three boxes deep.
		a. How many boxes are in one layer?	•
		b. How many boxes are on the pallet?	Layer = (5)(3) box
		c. What is the weight of the cheese on the pallet?	(1)(3) 00225
		a. There are 5 boxes in one layer.	Layer = (5)(3) boxes Layer = 15 boxes in one layer
		b. There are 45 boxes on the pallet.	Pallet = (15)(3)
		c. The weight of the cheese on the pallet is	10 Pellet = 45 boxes on pallet
		Answers 15	Welshit of = (45) (20) x20
		45	Chees, = (45)(20) X20
		900	= 900 pounds 00
		WL	10
-	22.	A plot of land measures 60 feet by 180 feet. Find its are	
		The area of the rectangle is 10 700 (1)	m feet A=LW 4
		(1) O feet.	
		Cubic feet.	60
			A = 180 · 60 000
		square feet.	1080
		Answers 10,800	A=180.60 000 A=10800 10800
		(1) square feet.	
-	23.		(L=315) (W=224)
		The largest hotel lobby in the world can be found at the	
		Mega Grand Hotel. It is in the shape of a rectangle that	
		measures 224 feet wide by 315 feet in length. Find its a	224 feet
			224 feet
			315 feet
		The area of the lobby is 70 560 (1) Swint	Feet A-LW
		, , , , , , , , , , , , , , , , , , , ,	A=(315)(224) 21
		(1) () feet,	- A = ()13/1 = 11
		Cubic feet.	A = 7 = 8%
		🔀 square feet.	H-10360 X224
		Answers 70,560	1260
			62.2
		(1) square feet.	0,0
			70560)

24.	A pixel is a rectangular dot on a graphing cale 94 pixels in a column, find the total number of		ing calculator screen conta	ins 66 pixels in a row and
	The total number of pixels on a screen is	6,209)	A= (94) (66)	94 WC 6.6
	Answer: 6,204		6204	1564
25.	A line of print on a computer contains 90 cha	racters. Find how many	characters there are in 18 li	ines. $\frac{369}{6209}$
(characters	18 × 90	_	
	Answer: 1620	162	٠	
26.	One ounce of nuts contains 161 calories. Ho	ow many calories are in 1	5 ounces of nuts?	7
(2415 calories	1	15	161
	Answer: 2415	161 =	N Cruss	1805
		1(N)=	161 (15) 161 (15)	161
		N=2	(15)	C713

27. 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 \$13 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	10	\$12	\$120
М	3		
L	4		
XL	2		
XXL	3		

Total Cost

T-Shirt Size	Number of Shirts Ordered	Cost per Shirt	Cost per Size Ordered
S	10	\$12	(\$120)
·M	3	\$ 12	\$ (36)
L	4	\$ /2	\$ 47
XL	2	\$ 13	\$ (26)
XXL	- 3	\$ (3	\$ 39
	To	otal Cost\$ 2	691

Answers 12

36

12

48

13

26

13

39

269

28. A plant for a tea company has bagging machines capable of bagging 1000 bags of tea per minute, if the plant runs 22 hours a day, how many tea bags are produced in one day?

The company produces /

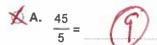
320 000ea bags in one day of operation.

Answer: 1,320,000

() AVUT 60
22
1) =

29. Find the quotient.

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

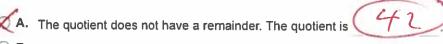


OB. The answer is undefined.

Answer: A.
$$\frac{45}{5} = \frac{9}{100}$$

30. Divide the following and then check by multiplying.

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



- O B. The quotient has a remainder not equal to 0. The quotient is
- O. The quotient is undefined.

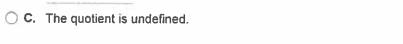
Answer: A. The quotient does not have a remainder. The quotient is 42

31. Divide the following and then check by multiplying.

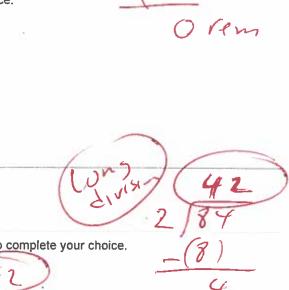
Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

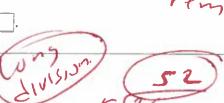


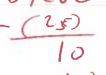
O B. The quotient has a remainder not equal to 0. The quotient is



Answer: A. The quotient does not have a remainder. The quotient is 52







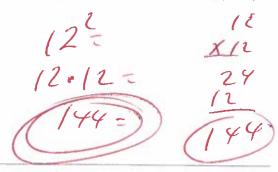




37. Find the value of the expression.



Answer: 144



38. Evaluate.

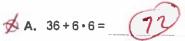


Answer: 81

2703=

Simplify. 39.

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



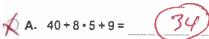
B. The expression is undefined.

Answer: A. 36 + 6 • 6 = 72

- PEMDAS 36+6.6-
- 36+36=

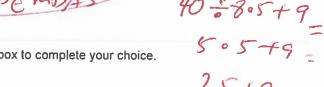
40. Simplify.

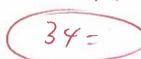
Select the correct choice below and, if necessary, fill in the answer box to complete your choice.



B. The expression is undefined.

Answer: A. 40 + 8 • 5 + 9 = 34

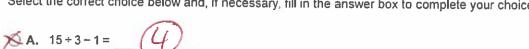




41. Simplify.

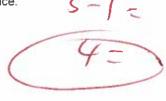
$$15 \pm 3 - 1$$

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



O B. The expression is undefined.

Answer: A. $15 \div 3 - 1 =$



42. Simplify.

$$18 + \frac{45}{5}$$



Select the correct choice below and, if necessary, fill in the answer box to complete your choice. 18+ 9=

$$\angle$$
 A. $18 + \frac{45}{5} = 27$



A.
$$18 + \frac{45}{5} =$$
 27

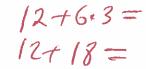
B. The expression is undefined.

Answer: A.
$$18 + \frac{45}{5} = \boxed{27}$$

43. Simplify.



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



44. Simplify.

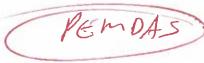
$$(2+7) \cdot (9-6)$$



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

45. Simplify.

$$3^4 - [26 - (10 - 7)]$$

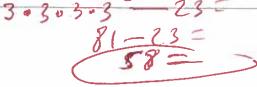


Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

$$(A. 3^4 - [26 - (10 - 7)] = 5$$

Answer: A.
$$3^4 - [26 - (10 - 7)] = 58$$

$$3^{4} - [26 - (10 - 7)] = 3^{4} - [26 - (3)] = 3^{4} - [26 - 3] = 3^{4} - [23]$$



46. Evaluate the expression for z = 7.





Answer: 31



47. Evaluate the expression for x = 2 and z = 3.

Answer: 10

PEMDAS)

$$3(2-4) = 3(2)(3) - 4(2) = 3(6) - 4(2) = 18 - 8 = 10$$

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

$$z - x + y$$

The answer is

Answer: 4



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

$$3x-z$$

$$3x-z=$$

Answer: 2

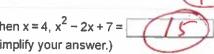


50. Evaluate the algebraic expression for the given value.

$$x^2 - 2x + 7$$
, for $x = 4$

When x = 4, $x^2 - 2x + 7 =$

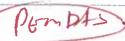
(Simplify your answer.)



X -2x+7 = (4)2 -2(4)+7 = (4)(4) - 2(4)+7 = 16-8+7=

- Answer: 15
- 51. Simplify.

$$3 + 4 \cdot 5 - 11$$



52. Solve. Check your solution.

$$x + 7 = 10$$

The solution is x =



X+72/0 X+7-1=10-7

- Answer: 3
- 53. Solve. Check your solution.

The solution is y =



23+9=7-9+9

Answer: 32

祭 = 4

Check X+7=10 (3)+7=10 10=10 boud

23=7-9

- 232 (32)-9 23=32-9
- 23=23 Good

54. Solve.

$$4x = 48$$

The solution is x =



Answer: 12

- 4x =48

- Ch eck 4x =47 4(12)=48 47=48
- 55. Solve the equation. First combine any like terms on each side of the equation.

$$x - 4 = -1 + 3$$

The solution is x =

Answer: 6



X-4 = 2 X-444=2+4

X-42-1+3

check X-4=-1+3 (6)-42-1+3 6-42-1+3 2=2

Good

Good

Solve the following equation.

$$5x - 5 = 0$$





5X=5

5x-5=0

5x-5A9=0+5

- 5X-5=0 5(1)-5=0 5-5 00 0=0

57. Solve the equation.

Answer: 1

$$5n + 50 = 55$$

Answer: 1

5h+50=55

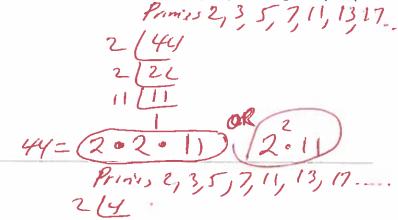
5N+558-50 255-50

cn = 5

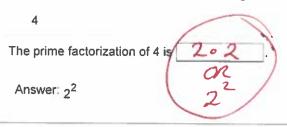
Good Check Sh+ 50 = 55 5(1)+50=55 5+50 = 55 55=55

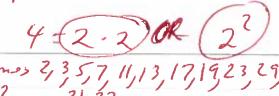
58. Find the prime factorization of the following number. 44 The prime factorization of 44 is 2020

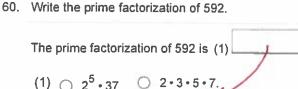
Answer: 22 . 11

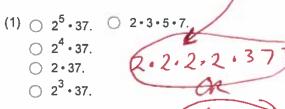


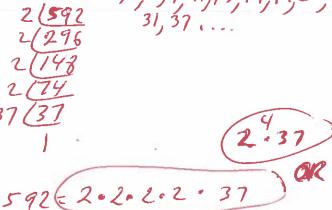
59. Find the prime factorization of the following number.





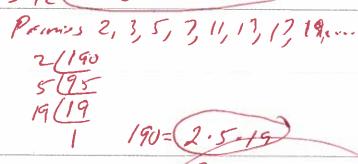




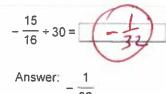


61. Find the prime factorization of the following number.



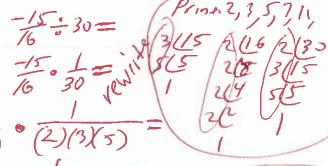


62. Divide $-\frac{15}{16}$ + 30. Write the quotient in simplest form.



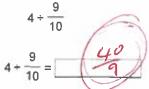
Answer: (1) 24 • 37.

(Type an integer or a fraction.)

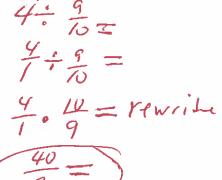


(2)(2)(2)(2)(2

63. Perform the indicated operation.



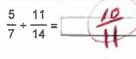
(Simplify your answer.)



Answer: 40

64. Perform the indicated operation.

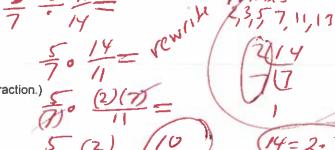




(Type an integer or a simplified fraction.)

5 . 180 =

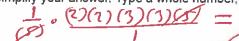




Find $\frac{1}{5}$ of 180.

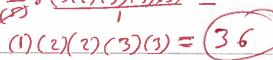


(Simplify your answer. Type a whole number, fraction, or mixed number.)

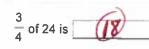


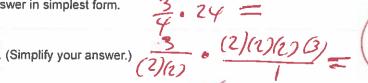
1. (2)(1)(3)(3)(5)

Answer: 36

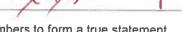


Find $\frac{3}{4}$ of 24. Write the answer in simplest form.

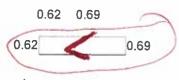




Answer: 18



67. Insert <, >, or = between the pair of numbers to form a true statement.



Answer: <

68.	Insert <,>, or = between the pair of numbers to form a true statement. /. 497
	Insert <,>, or = between the pair of numbers to form a true statement. 1.497 1.5 1.497 1.5 1.500
(1.497 1.5
	Answer: <
69.	Write $<$, $>$, or = between the pair of numbers to form a true statement. 0.427 0,4270 0
	Write <, >, or = between the pair of numbers to form a true statement. $0.427 0.42700$ 0.427 0.42700 $0.42700 = 0.42700$
	0.427 0.42700
	Answer: =
70.	Round the decimal to the nearest tenth.
	0.33 0.33 rounded to the nearest tenth is 0.33
	0.33 rounded to the nearest tenth is 0.33.
	(0.3 round
	Answer: 0.3
71.	Round the decimal to the nearest ten. 13 760 - 021
	13,760.021
	13,760.021 rounded to the nearest tens place is 13760.
	Answer: 13,760
72.	Round 0.4226 to the nearest thousandth. $0.4226 \approx 0.423$
	Answer: 0.423 (+han 5)
73.	Round 4.72661419 to the nearest tenth. 4.72661419
	4.72661419 rounded to the nearest tenth is 4.7).
	Answer: 4.7 4.7

https://xlitemprod.pearsoncng.com/api/v1/print/ma

74. Round the monetary amount to the nearest dollar.

\$24.77

\$24.77 rounded to the nearest dollar is \$



Answer: 25



\$0.8736 rounded to the nearest cent is \$

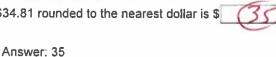


Answer: 0.87

76. A used biology textbook is priced at \$34.81. Round this price to the nearest dollar.

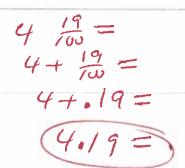
\$34.81 rounded to the nearest dollar is \$





77. Write as a decimal.

Answer: 4.19



Orem

78. Add the following.

$$6.5 + 6.24$$

(Type an integer or a decimal.)

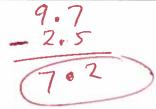
E YourL

Answer: 12.74

79. Subtract and check.

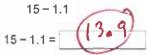
$$9.7 - 2.5$$

Answer: 7.2



/ https://xlitemprod.pearsonemg.com/api/v1/print/mat

80. Subtract and check the following.



(Type an integer or a decimal.)

Answer: 13.9

81. A landscape architect is planning a border for a flower garden shaped like a triangle. The sides of the garden measure 17.3 feet, 24.66 feet, and 22.9 feet. Find the amount of border material needed.

24.66 feet 17.3 feet 22.9 feet feet.

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

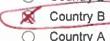
Answer: 64.86

82. 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?

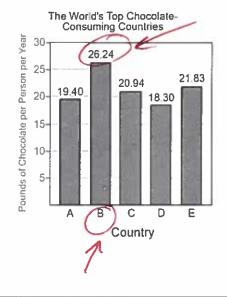
Choose the correct answer below.

- Country C
- Country D



Country E

Answer: Country B



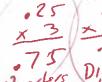
 Use the values of the coins given below. Write the value of the group of coins shown to the right. To do so, it is usually easiest to start with the coin(s) of greatest value and end with the coin(s) of least value. .05

Penny

Nickel

Dime

Quarter



15 VICKELS











\$0.01

\$0.05

\$0.10

\$0.25

The total value of the group is \$

Answer: 1.30

84. Use the values of the coins given to the right. Name the different ways that coins can have a value of \$0.15 given that you may use no more than 10 coins.

40.15



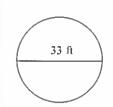


Choose the correct answer below. Select all that apply.

- A. 3 nickels and 6 pennies
- B. 1 dime and 5 pennies
- C. 3 nickels
- D. 2 nickels and 5 pennies
 - E. 1 dime, 3 nickels and 5 pennies
- F. 1 dime and 1 nickel

Answer: B. 1 dime and 5 pennies, C. 3 nickels, D. 2 nickels and 5 pennies, F. 1 dime and 1 nickel

85. Find the circumference of the circle in terms of π . Then use the approximation 3.14 for π and approximate the circumference.



C = 17 D C = 17 (33)

a. Find the circumference of the circle in terms of π .

The approximate circumference is 10 3.6

The exact circumference is

(337T) ft.

b. Find the circumference of the circle using 3.14 as an approximation for $\boldsymbol{\pi}.$

ft. (Round to the nearest hundredth as needed.)

C = 1TD C= 3.14 D C= 3.14 (33)

Answers 33π

103.62

C= 103.62

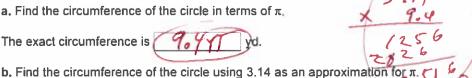
3.14 x 33 1942 942 103,62 Find the circumference of the circle in terms of π . Then use the approximation 3.14 for π and approximate the circumference.



C=TT(2R) C=T7(2.(4.7)) 4.7 yards C=TI(9.4) C= 9.477

a. Find the circumference of the circle in terms of π .

The exact circumference is



C=TTD (= TT (2R) C= 3.14(2(4.7)) C=3.14 (9.4)

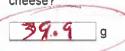
The approximate circumference is 29. 5/6

yd. (Round to the nearest thousandth as needed.)

Answers 9.4π

29.516

87. A 1-ounce serving of cream cheese contains 5.7 grams of saturated fat. How much saturated fat is in 7 ounces of cream cheese?



Answer: 39,9

Answer: 16.2

1(N)=5.7(7) Cross mult (N=39,9)

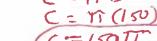
(Type an integer or a decimal, Round to the nearest hundredth as needed.)

88. The screen of a portable digital device is a rectangle that measures 4.5 inches by 3.6 inches. Find the area of the screen.

16.20 square inches. (Type an integer or a decimal.) A = LW A = (4.5)(3.6)

89. The diameter of a ferris wheel is 150 feet. Find its circumference, Give an exact answer and an approximation using 3.14

The circumference is 1507



(Type an exact answer in terms of π .)

The circumference is approximately 97% of eet.

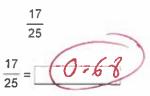
C=TD C= 3.14 (150)

Answers 150π

471.00

90.	A meter is a unit of length approximately equal to 39.37 inches. If someone is 1.87 meters tall, what is his or her approximate height in inches?					
	Using the given conversion, someone who is 1.87 meters tall has a height of 73.6219 inches. ((w) = 34.37(1-6219)					
	(Type an integer or a decimal.) 2759					
	31496 $N = 73.6216$					
	Answer: 73.6219					
91.	Consider the circles at the right. $C = \pi D = \pi D$					
(C=3.14(2R) (=3.14(2R))					
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$					
-	(-3 /// 20)					
(= 125.60 C=251.20					
	C-251000					
	a. Approximate the circumference of each circle. Use $\pi = 3.14$.					
	100 100					
	The circumference of the smaller circle is approximately 125.60 meters. (Round to the nearest hundredth as needed.)					
	The circumference of the larger circle is approximately 25/22 meters.					
	(Round to the nearest hundredth as needed.)					
	b. If the radius of a circle is doubled, is its corresponding circumference also doubled?					
	Yes					
	O No					
	Answers 125.60					
	251.20					
	Yes					
92.	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?					
	13.035 N tous					
	The farmer received \$ $1303 \cup 50$. (Round to the nearest cent as needed.) $1(N) = 13.03 \cup 50$.					
	Answer: 1303.50					
93.	Perform the indicated operation.					
	1.7 + 0.06					
	(120					
	1.7 + 0.06 = 76 (Type an integer or a decimal.)					
	Answer: 1.76					

94. Find the decimal equivalent of the following fraction.



Answer: 0.68

20 00

95. Write as an equivalent decimal.



$$\frac{3}{4} = 0.75$$

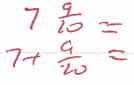
Answer: 0.75

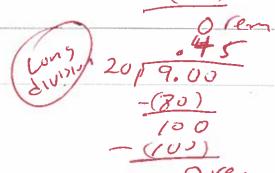


96. Write $7\frac{9}{20}$ as a decimal.



Answer: 7,45

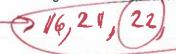




97. Find the mean, median, and mode for the following set of numbers: the necessary, round the mean to one decimal place.

21, 28, 22, 23, 16

The mean is



(Type an integer or decimal rounded to one decimal place as needed. Use a comma to separate answers as needed.)

The median is

Midian

(Type an integer or decimal rounded to one decimal place as needed. Use a comma to separate answers as needed.)

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

A. The mode is

(Type an integer or decimal rounded to one decimal place as needed. Use a comma to separate answers as needed.)

B. There is no mode.

Answers 22

22

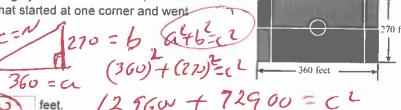
B. There is no mode.

98.	A stereo normally priced at \$730 is on sale	e for 5% off. Find the discount an	d the sale price.	P
	The discount is \$ 36.50	730		730.00
	The sale price is \$ 693.50	3650	E C	<u>- 36.50</u> (93.50)
	Answers 36.50 693.50	\$ 36.50 4130		Pris
99.	A company borrows \$73,000 for 5 years at amount paid.	t a simple interest rate of 11.5%. I	Find the interest paid o	1.4
	The interest paid on the loan is \$49	× .575	+4197	X 5
	The total amount paid is \$ 19975	1 365000	114,97	5 ,575
	Answers 41,975	365000	- " id	7
	114,975	41,975.000 A Inters	+ Tutano	i.d
100.	The circle graph is a result of surveying 7 students. They were asked where they liv college. Use this graph to find where mos students live.	re while attending off-campus I Campus I		
	Choose the correct answer below.			
(A. Parent or guardian's home			
	B. Other arrangements			
	C. Off-campus rental			
	D. Campus housingE. Own off-campus housing			
	C. Own on-campus nousing			
	Answer: A. Parent or guardian's home			
101.	Find the square root. $\sqrt{9}$	√9 =	3	$9 = 3 \cdot 3$
	¥ -			V9 =
	Answer: 3			

25 of 43

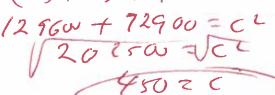
106. A playing field is a rectangle that is 360 feet long by 270 feet wide. Find, to the nearest foot, the length of a straight-line run that started at one corner and went

diagonally to end at the opposite corner.

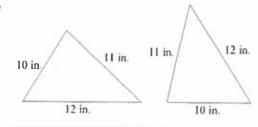


The length of the straight-line run is (Round to the nearest foot as needed.)

Answer: 450



107. Determine whether the pair of triangles is congruent. If congruent, state the reason why, such as SSS, SAS, or ASA.



Choose the correct answer below.

O Congruent by ASA

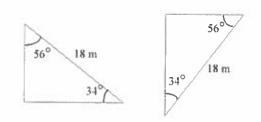
Congruent by SAS

Congruent by SSS

Not congruent

Answer: Congruent by SSS

108. Determine whether the pair of triangles is congruent. If congruent, state the reason why, such as SSS, SAS, or ASA.



Choose the correct answer below.

Congruent by ASA

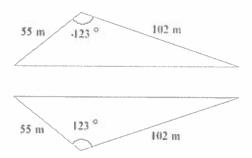
Congruent by SAS

Congruent by SSS

Not congruent

Answer: Congruent by ASA

 Determine whether the pair of triangles is congruent. If congruent, state the reason why, such as SSS, SAS, or ASA.

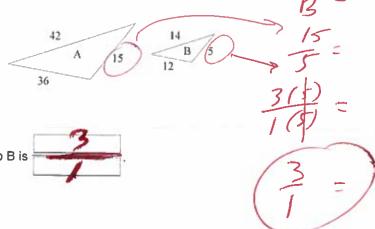


Choose the correct answer below.

- Congruent by ASA
- Congruent by SSS
- Congruent by SAS
 - Not congruent

Answer: Congruent by SAS

Triangles A and B are similar triangles. Find the ratio of the corresponding sides of triangle A to triangle B.



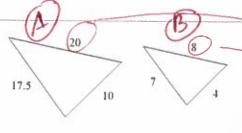
The ratio of the corresponding sides of triangles A to B is

(Simplify your answer.)

Answers 3

1

111. 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

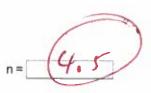
the second triangle is ______.
(Type the ratio as a simplified fraction.)

12 (2) (1) (2) 14 (5) (1) (2)

Answer: 5

Princis, 3, 57

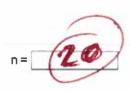
Given that the pair of triangles is similar, find the length of the side labeled n.



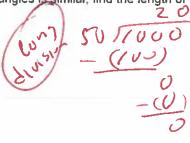
Answer: 4.5

- 13.5

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

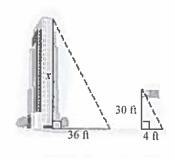


Answer: 20



50

114. 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: 270

115. If a 40-foot tree casts a 16-foot shadow, find the length of the shadow cast by a 24-foot tree.

The length of the tree's shadow is

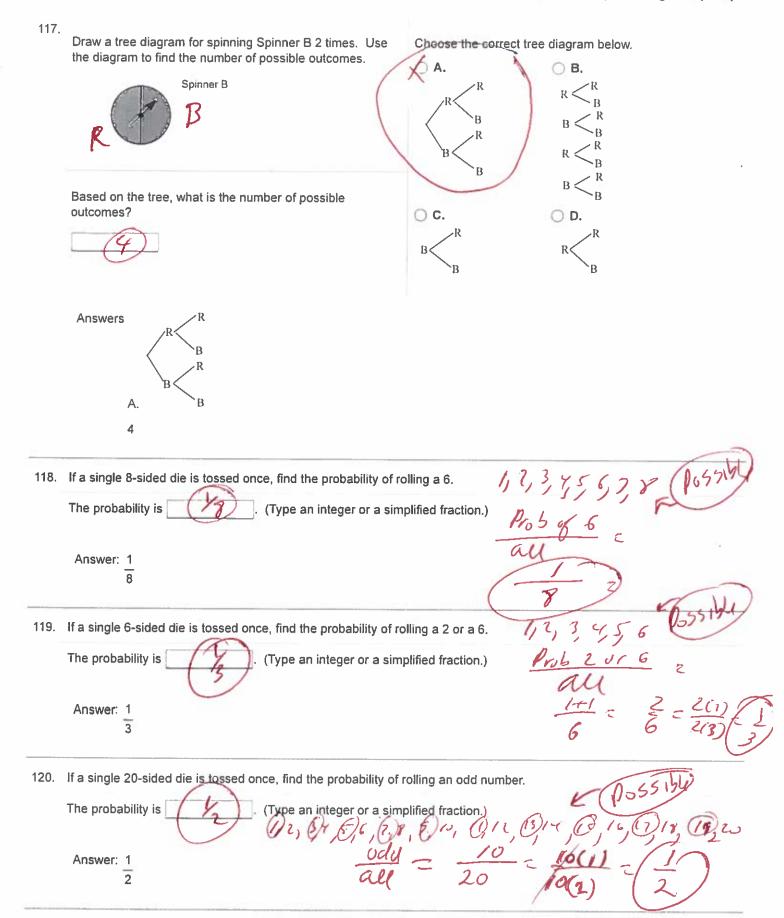
(Type an integer or a decimal rounded to the nearest tenth.)

feet.

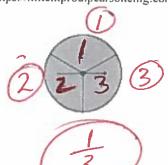


Answer: 9.6

116. 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. ○ A. O C. O D. Based on the tree, what is the number of possible outcomes? Answers B. 20 Nogsibla Oux cumis



121. Suppose the spinner shown is spun once. Find the probability of spinning 3.



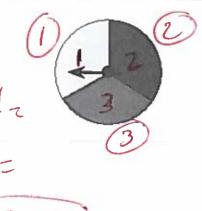
The probability is



(Type an integer or a simplified fraction.)

Answer: $\frac{1}{3}$

122. Suppose that the spinner shown is spun once. Find the probability of the event that the result of a spin is 1, 2, or 3.



The probability is (Simplify your answer.)

Answer: 1

123. A marble is selected at random from a jar containing 2 red marbles, 5 yellow marbles, and 4 green marbles.

What is the probability that the marble is red?

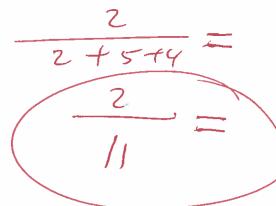
The probability that the marble is red is

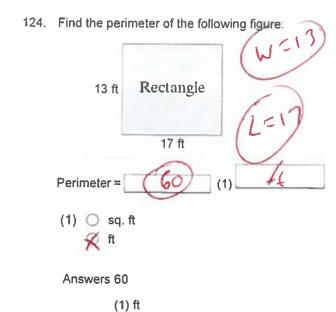


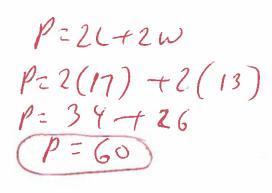
(Type an integer or a simplified fraction.)



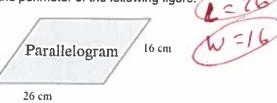








125. Find the perimeter of the following figure.



P=21+2W P=2(26)+2(16) P=52+32 P=84

Perimeter = 84 (1) Cm

Answers 84

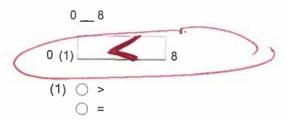
(1) cm

126. Find the perimeter of the following figure. SIN 12 12 side B = 14 P= 12+14+16 side C = 16 P= 26+16 The perimeter is (1) o sq. in. € in. Answers 42 (1) in. 127. Find the perimeter of the figure shown to the right. 16 ft PEATBACADTE P=15+18+16+16+23 P=33 +16+16+23 P= 49+16+23 15 ft 23 ft Perimeter = (1) O sq. ft. A ft. Answers 88 (1) ft. 128. Find the perimeter of the regular polygon shown to the right. P. AFBEC (1) o sq cm € cm Answers 45 (1) cm

129.	A computer has shape of a rectangular solid. Find the volume by 5.2 inches. The volume of the computer is 30 (1) CU (Simplify your answer. Type an integer or a decimal.) (1) sq in. 25 (1) in. 25 (1) CU (1) CU (1) CU in.	ValueH	L=5
130.	Inpart < > or = in the areas hat your than a larger		
130.	Insert <, >, or = in the space between the paired numbers	s to make the statement true.	
	2_4	264	
(2 (1) 4		
	(1) 🔘 >	1 1	
	O =		
	O <	2 4	
	Answer: (1) <		
131.	Insert <, >, or = in the space between the paired numbers	to make the statement true.	
	5 3	> 3	
	53	-	
	Answer: >		
132.	Insert <, >, or = in the space between the paired numbers	to make the statement true.	
	5.89 ? 5.89	= 5.89)
	5.89 5.89	Same	

Answer: =

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



Answer: (1) <

Answer: a + 32

which axis the point lies.



135. Plot the ordered pair (4,1). State in which quadrant or on

Plot the ordered pair on the graph to the right.

In which quadrant, or on which axis, does the point lie?

on the y-axis

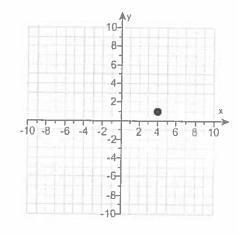


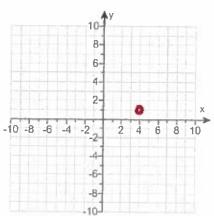
Ш

on the x-axis

1



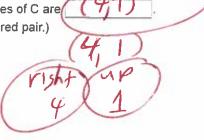


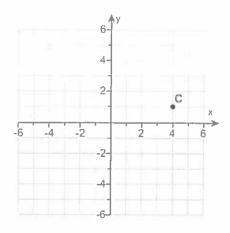


35.of 43

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

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



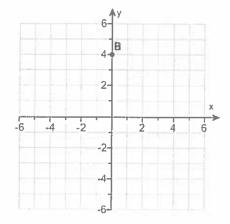


Answer: (4,1)

137.

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

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



rish 4

Answer: (0,4)

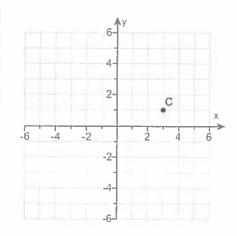
138.

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

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



Answer: (3,1)



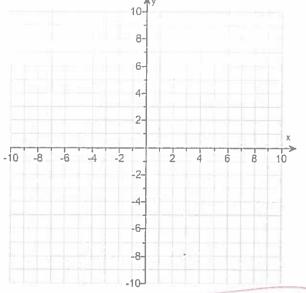
For the equation, find three ordered pair solutions by completing the table. Then use any two of the ordered pairs to graph the equation.

$$y = \frac{1}{4}x$$

Complete the table below.

х	у
0	0
- 8	(-2)
8	(2)

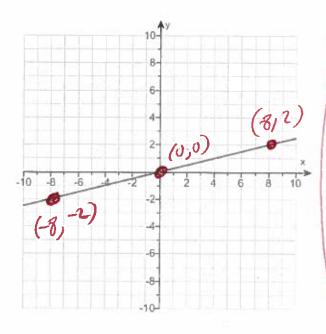
Use the graphing tool to graph the equation.

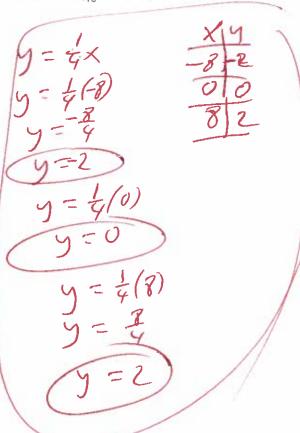


Answers 0

-2

2





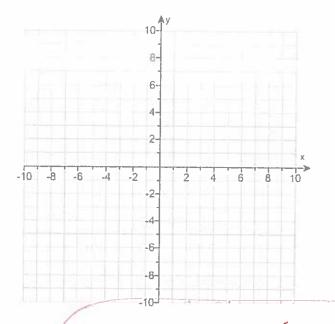
For the following equation, find three ordered pair solutions by completing the table. Then use the ordered pairs to graph the equation.

$$y = -2x + 8$$

Find three ordered pair solutions of the given equation.

x	У
0	(8)
1	(6)
2	(4)

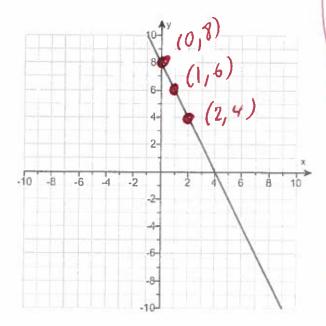
Use the graphing tool to graph the line.



Answers 8

6

4

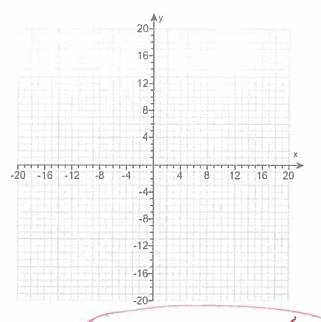


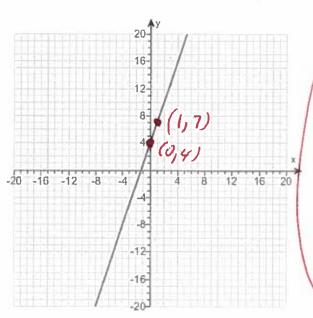
y = 0 + 8 y = 8 y = -2(1) + 8 y = -2 + 8 y = -6 y = -6 y = -4 + 8 y = -4 + 8 y = -4 + 8

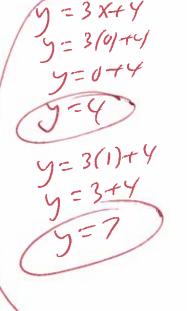
Graph the equation.

$$y = 3x + 4$$

Use the graphing tool to graph the line.

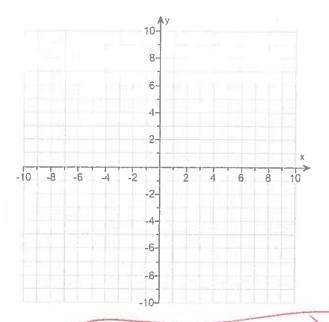


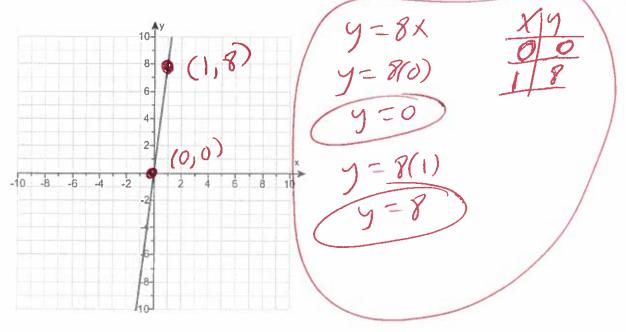




Graph the linear equation.

Use the graphing tool to graph the linear equation.

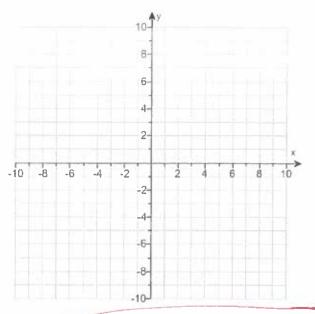


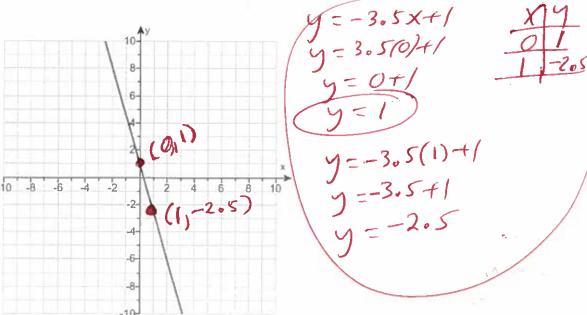


Graph the linear equation.

$$y = -3.5x + 1$$

Use the graphing tool to graph the equation.





144. Given the following function, find f(-5), f(0), and f(3).



f(x) = -3x-4

fx1= x 2+3

Answers 11

- -4
- -13

145. Given the following function, find f(-5), f(0), and f(2).

$$f(x) = x^2 + 3$$



Answers 28

3

7

FX1=X=3

FX)=X+3 $f(2) = (2)^{2} + 3$

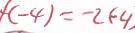
f(2)=(2)(2)+3

146. Find f(-4), f(0) and f(3) for the following function,

$$f(x) = -2x$$







Answers 8

- 0
- -6

147. Given the function f(x) = -2x + 4, find the indicated values.



- (a) f(4)
- (b) f(b)



- (a) f(4):
- (Simplify your answer.)

- **(b)** f(b) =
- (Simplify your answer.)



- Answers 4
 - -2b+4

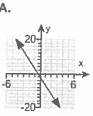
148. Graph the function.

$$f(x) = 5x - 2$$

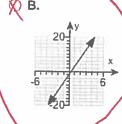




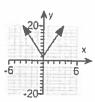
OA.



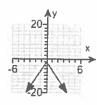
₿В.



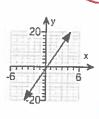
O C.

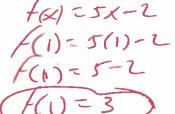


O D.

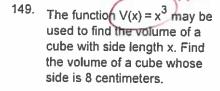


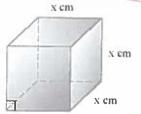
Answer:





B.





The volume is



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

