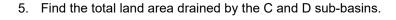
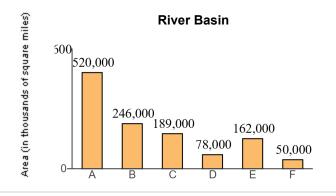
Student: Date:		Instructor: Alfredo Alvarez Course: Math 0410 / 0320 Alvarez	Assignment: MATH5THSANANTFIESTA145PMR	
1.	Find the perimeter of the figure.	6 feet	9 feet 0 feet	
	The perimeter is feet Answer: 25	·.		
2.	Find the perimeter of the figure. ft Answer: 34	Rectangle 10 feet	e 7 feet	
3.	Find the perimeter of the figure.	16 centing 1 centimeter 2 centimeter 6 centimeters	3 centimeters	
	Answer: 34			
4.	A new notebook computer with DVD plus be left in his checking account after his	DVD player costs \$1434. Derik Muller has \$1487 in his checking account. How much will fter he buys the notebook computer? remaining in his checking account after he buys the notebook computer.		
	Derik will have \$ remains			
	Answer: 53			

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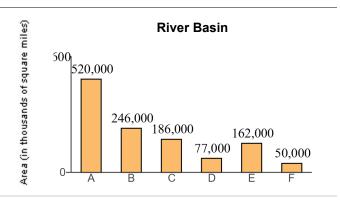




sq mi

Answer: 267,000

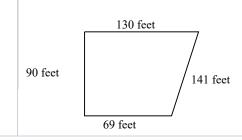
6. How many more square miles of land is drained by the A sub-basin than the B sub-basin?



sq mi

Answer: 274,000

7. 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?



ft

Answer: 430

8. Evelyn Abrams is reading a 910-page book. If she has just finished reading page 833, how many more pages must she read to finish the book?

pages

Answer: 77

The perimeter is feet.	he perimeter is feet.			
Answer: 132				
The table on the right shows the number of particular stores		ates for the Stores		
in ten states. Which state has the most stores?	State	Number of Stores		
	Α	34		
State (1) has the most stores.	В	121		
State (1) has the most stores.	С	72		
	D	42		
	E	75		
	F	62		
	G H	53 78		
	K	46		
	L	108		
O B O F O L O C O G O D O H Answer: (1) B				
O C O G O D O H Answer: (1) B	Stato	Number of Stores		
O C O G O D O H	State Arizona	Number of Stores		
C C G D D H Answer: (1) B The table on the right shows the number of a particular store in ten states. What is the total number of stores located in	Arizona	189		
C C G D D H Answer: (1) B The table on the right shows the number of a particular store in ten states. What is the total number of stores located in	Arizona California	189 130		
C G D H Answer: (1) B 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?	Arizona California Florida	189 130 56		
C G D H Answer: (1) B 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	Arizona California	189 130		
C G D H Answer: (1) B 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?	Arizona California Florida Georgia	189 130 56 75		
C G D H Answer: (1) B 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	Arizona California Florida Georgia Illinois	189 130 56 75 53		
C G D H Answer: (1) B 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	Arizona California Florida Georgia Illinois New York	189 130 56 75 53 34		
C G D H Answer: (1) B 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	Arizona California Florida Georgia Illinois New York Michigan	189 130 56 75 53 34 43		
C G D H Answer: (1) B 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	Arizona California Florida Georgia Illinois New York Michigan Minnesota	189 130 56 75 53 34 43 72		
C G D H Answer: (1) B 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	Arizona California Florida Georgia Illinois New York Michigan Minnesota Ohio	189 130 56 75 53 34 43 72 86		
C G D H Answer: (1) B 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 states with the most stores.	Arizona California Florida Georgia Illinois New York Michigan Minnesota Ohio	189 130 56 75 53 34 43 72 86		
C C D H Answer: (1) B 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 states with the most stores.	Arizona California Florida Georgia Illinois New York Michigan Minnesota Ohio	189 130 56 75 53 34 43 72 86		

13.	Round 396 to the nearest ten.
	396 rounded to the nearest ten is
	Answer: 400
14.	Round 96,414 to the nearest thousand.
	96,414 rounded to the nearest thousand is
	Answer: 96,000
15.	Bargain Appliance Store advertises three dishwashers on sale at \$1699, \$699, and \$799. Round each cost to the nearest hundred to estimate the total cost.
	The estimated total cost is \$
	Answer: 3200
16.	Use the distributive property to rewrite each expression.
	6(8 + 2)
	6(8 + 2) = (Type an expression. Do not simplify.)
	Answer: 6 • 8 + 6 • 2
17.	Find the area and the perimeter of the rectangle shown to the right. 8 meters 5 meters
	The area of the rectangle is (1)
	The perimeter of the rectangle is (2)
	(1) Cubic meters. (2) Cubic meters. Square meters. meters. Square meters. Square meters.
	Answers 40
	(1) square meters.
	26
	(2) meters.

18.	Find the area and the perimeter of the rectangle shown to the right. 16 feet 50 feet		
	The area of the rectangle is (1)		
	The perimeter of the rectangle is (2)		
	(1)		
	Answers 800		
	(1) square feet.		
	132		
	(2) feet.		
19.	One triple fudge brownie contains 163 calories. How many calories are in 3 triple fudge brownies?		
	calories		
	Answer: 489		
20.	The textbook for a course in biology costs \$94. There are 36 students in the class. Find the total cost of the biology books for the class.		
	The total cost is \$		
	Answer: 3,384		
21.	A plot of land measures 80 feet by 140 feet. Find its area.		
	The area of the rectangle is (1)		
	(1) Cubic feet. Control feet.		
	Answers 11,200		
	(1) square feet.		

22.	One ounce of nuts contains 224 calories.	How many calories are in 9 ounces of nuts?

calories

Answer: 2016

23. 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?

The company produces tea bags in one day of operation.

Answer: 4,320,000

24. Find the quotient.

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

- $\frac{1}{6}$ = _____
- O B. The answer is undefined.

Answer: A.
$$\frac{42}{6} = \boxed{7}$$

25. 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.

- A. The quotient does not have a remainder. The quotient is .
- O B. The quotient has a remainder not equal to 0. The quotient is ______R
- O. The quotient is undefined.

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

26.	Divide the following and then check by multiplying.			
	3) 291 Select the correct choice below and, if necessary, fill in the answer box to complete your choice.			
	O A. The quotient does not have a remainder. The quotient is			
	O B. The quotient has a remainder not equal to 0. The quotient is R			
	C. The quotient is undefined.			
	Answer: A. The quotient does not have a remainder. The quotient is			
27.	Divide the following and then check by multiplying.			
	6) 1363			
	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.			
	○ A. The quotient does not have a remainder. The quotient is			
	O B. The quotient has a remainder not equal to 0. The quotient isR			
	C. The quotient is undefined.			
	Answer: B. The quotient has a remainder not equal to 0. The quotient is 227 R 1.			
28.	For their wedding, Ben and Jen paid \$15 for each guest's dinner. The total bill was \$2220. How many guests did they have at their wedding?			
	guests			
	Answer: 148			
29.	A truck hauls wheat to a storage granary. It carries a total of 4,320 bushels of wheat in 15 trips. How much does the truck haul each trip if each trip it hauls the same amount?			
	The truck hauls bushels each trip.			
	Answer: 288			
30.	Suppose the elevation of a peak on a certain planet is 26,400 feet. A mile is 5280 feet. How many miles tall is the peak?			
	The peak is miles tall.			
	Answer: 5			

7 of 39

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

The average value is

Answer: 23

32. Find the value of the expression.

$$7^2$$

Answer: 49

33. Simplify.

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

- A. 45 + 3 4 =
- OB. The expression is undefined.

Answer: A. 45 + 3 • 4 = **57**

34. Simplify.

$$46 + \frac{45}{5}$$

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

- \bigcirc **A.** $46 + \frac{45}{5} =$
- OB. The expression is undefined.

Answer: A. 46 +
$$\frac{45}{5}$$
 = $\boxed{55}$

35. Simplify.

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

- **A**. 5•8+9•5=____
- OB. The expression is undefined.

36. Simplify.

$$(6+7) \cdot (8-3)$$

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

- \bigcirc **A.** $(6+7) \cdot (8-3) =$
- OB. The expression is undefined.

Answer: A.
$$(6+7) \cdot (8-3) = 65$$

37. Evaluate the expression for z = 3.

$$2 + 7z$$

Answer: 23

38. Evaluate the expression for x = 3 and z = 5.

$$5xz - 4x$$

Answer: 63

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

$$z - x + y$$

The answer is

40.	Evaluate the expression for $x = 2$ and $z = 4$. 5x - z		
	5x - z =		
	Answer: 6		
41.	Evaluate the algebraic expression for the given value.		
	$x^2 - 3x + 5$, for $x = 7$		
	When $x = 7$, $x^2 - 3x + 5 =$. (Simplify your answer.)		
	Answer: 33		
42.	Determine which numbers in the set are solutions of the equation.		
	n – 6 = 10; {14, 16, 18}		
	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.		
	\bigcirc A. in the set {14, 16, 18} is a solution of the equation $n - 6 = 10$.		
	None of the numbers in the set are solutions of the equation		
	Answer: A. 16 in the set $\{14, 16, 18\}$ is a solution of the equation $n - 6 = 10$.		
43.	Determine which numbers in the set are solutions of the equation.		
	5n = 35; {7, 49, 35}		
	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.		
	\bigcirc A. in the set $\{7, 49, 35\}$ is a solution of the equation $5n = 35$.		
	O B. None of the numbers in the set are solutions of the equation.		
	Answer: A. 7 in the set {7, 49, 35} is a solution of the equation 5n = 35.		
44.	Determine which numbers in the set are solutions of the equation.		
	6n + 2 = 38; {0, 4, 6}		
	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.		
	\bigcirc A. in the set $\{0, 4, 6\}$ is a solution of the equation $6n + 2 = 38$.		
	O B. None of the numbers in the set are solutions of the equation.		
	Answer: A. 6 in the set {0, 4, 6} is a solution of the equation 6n + 2 = 38.		

45.	Simp	lify
-----	------	------

$$3 + 5 \cdot 4 - 12$$

Answer: 11

46. Solve. Check your solution.

$$x + 9 = 16$$

The solution is x =

Answer: 7

47. Solve. Check your solution.

$$18 = y - 10$$

The solution is y =

Answer: 28

48. Solve.

$$4x = 32$$

The solution is x =

Answer: 8

49. Solve the equation. First combine any like terms on each side of the equation.

$$x - 9 = -4 + 6$$

The solution is x =

Answer: 11

50. Solve the following equation.

$$2x - 14 = 0$$

51. Solve the equation.

$$5n + 15 = 45$$

Answer: 6

52. Find the prime factorization of the following number.

24

The prime factorization of 24 is

Answer: $2^3 \cdot 3$

53. Find the prime factorization of the following number.

32

The prime factorization of 32 is

Answer: 2⁵

54. Find the prime factorization of the following number.

195

The prime factorization of 195 is

Answer: 5 • 3 • 13

55. Divide.

$$\frac{4}{9} \div \frac{17}{18}$$

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

 \bigcirc A. $\frac{4}{9} \div \frac{17}{18} =$ (Type an integer or a simplified fraction.)

OB. The answer is undefined.

Answer: A. $\frac{4}{9} \div \frac{17}{18} = \frac{8}{17}$ (Type an integer or a simplified fraction.)

56. Perform the indicated operation.

$$3 \div \frac{4}{15}$$

$$3 \div \frac{4}{15} =$$
 (Simplify your answer.)

Answer: $\frac{45}{4}$

57. Perform the indicated operation.

$$\frac{4}{7} \div \frac{11}{35}$$

$$\frac{4}{7} \div \frac{11}{35} =$$
 (Type an integer or a simplified fraction.)

Answer: 20 11

58. Find $\frac{1}{5}$ of 190.

$$\frac{1}{5}$$
 of 190 is ______. (Simplify your answer. Type a whole number, fraction, or mixed number.)

Answer: 38

59. Find $\frac{3}{4}$ of 16. Write the answer in simplest form.

$$\frac{3}{4}$$
 of 16 is ______. (Simplify your answer.)

Answer: 12

A special on a cruise to the South Pole is advertised as being $\frac{7}{8}$ of the regular price. If the regular price is \$1624, what is the sale price?

The sale price is \$. (Type an integer or a simplified fraction.)

61. Add and simplify.

$$\frac{5}{12} + \frac{1}{12}$$

$$\frac{5}{12} + \frac{1}{12} =$$
 [Type an integer or a simplified fraction.)

Answer: $\frac{1}{2}$

62. Add and simplify.

$$\frac{2}{5} + \frac{3}{10}$$

$$\frac{2}{5} + \frac{3}{10} =$$
 [Type an integer or a fraction.)

Answer: 7 10

63. Perform the indicated operation.

$$\frac{1}{2} - \frac{1}{7}$$

$$\frac{1}{2} - \frac{1}{7} =$$
 [Type a whole number or a simplified fraction.)

Answer: 5

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

Answer: <

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

Answer: <

66.	Write <, >, or = between the pair of numbers to form a true statement. 0.88200 0.882		
	0.88200 0.882		
	Answer: =		
67.	Round the decimal to the nearest tenth.		
	0.15		
	0.15 rounded to the nearest tenth is		
	Answer: 0.2		
68.	Round the decimal to the nearest ten.		
	57,945.215		
	57,945.215 rounded to the nearest tens place is		
	Answer: 57,950		
69.	Round 0.3469 to the nearest thousandth. $0.3469 \approx \boxed{}$		
	Answer: 0.347		
70.	Round 4.87162434 to the nearest tenth.		
	4.87162434 rounded to the nearest tenth is		
	Answer: 4.9		
71.	Round the monetary amount to the nearest dollar.		
	\$90.21		
	\$90.21 rounded to the nearest dollar is \$		
	Answer: 90		

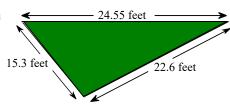
72.	Round \$0.8524 to the nearest cent.		
	\$0.8524 rounded to the nearest cent is \$		
	Answer: 0.85		
73.	A used biology textbook is priced at \$57.43. Round this price to the nearest dollar.		
	\$57.43 rounded to the nearest dollar is \$		
	Answer: 57		
74.	Write as a decimal.		
	$5\frac{21}{100}$		
	$5\frac{21}{100} = $		
	Answer: 5.21		
 75.	Add the following.		
	8.5 + 4.12		
	8.5 + 4.12 = (Type an integer or a decimal.)		
	Answer: 12.62		
76.	Find the sum of 37, 9.006, and 6.701.		
	The sum is		
	Answer: 52.707		
77.	Subtract and check.		
	5.7 - 2.5		
	5.7 - 2.5 =		
	Answer: 3.2		

78. Subtract and check the following.

17 - 1.8 =(Type an integer or a decimal.)

Answer: 15.2

79. A landscape architect is planning a border for a flower garden shaped like a triangle. The sides of the garden measure 15.3 feet, 24.55 feet, and 22.6 feet. Find the amount of border material needed.



The amount of border material needed is feet.

(Type an integer or a decimal.)

Answer: 62.45

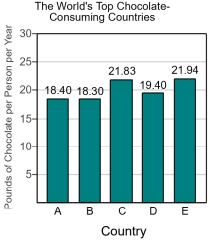
80. The bar graph shows the top five chocolate-consuming nations in the world. Use this graph to answer the following.

Which country has the greatest chocolate consumption per person?

Choose the correct answer below.

- Country E
- Country B
- Country D





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





The total value of the group is \$

Answer: 0.95

82. 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.

Penny	Nickel	Dime	Quarter
\$0.01	\$0.05	\$0.10	\$0.25

		\$0.01	\$0.05	\$0.10	\$0.25	
	Choose the correct answer below. Select all that apply.					
	☐ A . 1 dime and 1 nickel					
	☐ B. 3 nickels and 5 pennies					
	C. 3 nickels					
	D. 1 dime and 5 pennies					
	■ E. 2 nickels and 5 pennies					
	☐ F. 1 dime, 3 nickels and 5 pennies					
	Answer: A. 1 dime and 1 nickel, C. 3 nickels, D. 1 dime and 5 pennies, E. 2	nickels a	nd 5 pen	nies		
83.	Multiply.					
	0.19×6					
	0.19 × 6 = (Type an integer or a decimal.)					
	Answer: 1.14					
84.	Multiply.					
	8.7 ×0.5					
	8.7					
	(Type on integer or a decimal.)					
	(Type an integer or a decimal.)					
	Answer: 4.35					
85.	Multiply.					
	0.587					
	×0.4					
	0.587					
	×0.4					
	Answer: 0.2348					

86.	Multiply.
-----	-----------

 5.4×0.001

Answer: 0.0054

87. Multiply.

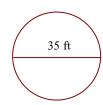
$$8.7\!\times\!0.12$$

8.7 × 0.12 =

Answer: 1.044

88.

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



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

The exact circumference is ft.

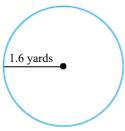
b. Find the circumference of the circle using 3.14 as an approximation for π .

The approximate circumference is ft. (Round to the nearest hundredth as needed.)

Answers 35π

109.90

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



	a. Find the circumference of the circle in terms of π .
	The exact circumference is yd.
	b. Find the circumference of the circle using 3.14 as an approximation for π .
	The approximate circumference is yd. (Round to the nearest thousandth as needed.)
	Answers 3.2π
	10.048
90.	A 1-ounce serving of cream cheese contains 8.7 grams of saturated fat. How much saturated fat is in 5 ounces of cream cheese?
	g
	Answer: 43.5
91.	The screen of a portable digital device is a rectangle that measures 4.5 inches by 3.4 inches. Find the area of the screen.
	The area is square inches. (Type an integer or a decimal.)
	Antwort: 15.3
92.	The diameter of a ferris wheel is 170 feet. Find its circumference. Give an exact answer and an approximation using 3.14 for π .
	The circumference is $\begin{tabular}{c} \begin{tabular}{c} ta$
	The circumference is approximately feet.
	(Type an integer or a decimal. Round to the nearest hundredth as needed.)
	Antworten 170π
	533.80

93.	A meter is a unit of length approximately equal to 39.37 inches. If someone is 1.68 meters tall, what is his or her approximate height in inches? Using the given conversion, someone who is 1.68 meters tall has a height of				
	Antwort: 66.1416				
94.	One year, farmers received an average of \$12.125 per bushel of wheat. How much did a farmer receive for selling 100 bushels of wheat?				
	The farmer received \$ (Round to the nearest cent as needed.)				
	Antwort: 1212.50				
95.	Divide.				
	4) 21.6				
	The quotient is				
	(Type an integer or a decimal.)				
	Antwort: 5.4				
96.	Divide.				
	8)0.28				
	The quotient is (Type an integer or a decimal.)				
	Antwort: 0.035				
97.	Divide.				
	0.04)12				
	The quotient is				
	(Type a whole number or a decimal.)				
	Answer: 300				
98.	Divide.				
	0.87)5.046				
	The quotient is (Type an integer or a decimal.)				
	Answer: 5.8				

99. Divide.

The quotient is . (Type a whole number or a decimal.)

Answer: 1100

100. Find the decimal equivalent of the following fraction.

$$\frac{13}{20}$$

$$\frac{13}{20} =$$

Answer: 0.65

101. Write as an equivalent decimal.

$$\frac{3}{4}$$

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

Answer: 0.75

102. Write $2\frac{7}{20}$ as a decimal.

$$2\frac{7}{20} =$$

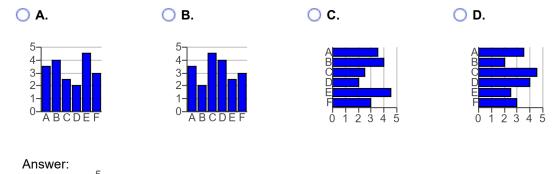
Answer: 2.35

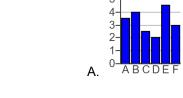
103.	Find the mean, median, and mode for the following set of numbers. If necessary, round the mean to one decimal place.					
	27, 22, 19, 17, 30					
	The mean is .					
	(Type an integer or decimal rounded to one decimal place as needed. Use a comma to separate answers as needed.)					
	The median is					
	(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.					
	O A. The mode is .					
	(Type an integer or decimal rounded to one decimal place as needed. Use a comma to separate answers as needed.)					
	O B. There is no mode.					
	Answers 23					
	22					
	B. There is no mode.					
104.	A stereo normally priced at \$780 is on sale for 10% off. Find the discount and the sale price.					
	The discount is \$					
	The sale price is \$					
	Answers 78.00					
	702.00					

Use the information given to draw a vertical bar graph.

Fiber Content	of Selected Foods
Food	Grams of Total Fiber
Α	3.5
В	4.0
С	2.5
D	2.0
Е	4.5
F	3.0

Choose the correct graph below.

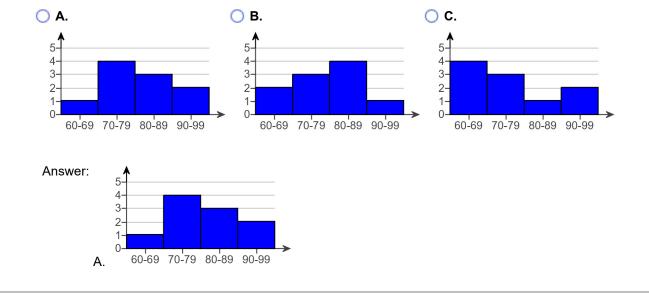




106. The frequency distributition of the golf scores for an amateur golfer is shown on the right. Use the frequency distribution to construct a histogram.

Class Intervals (Scores)	Class Frequency (Number of Games)
60-69	1
70-79	4
80-89	3
90-99	2

Which graph below is the correct histogram?

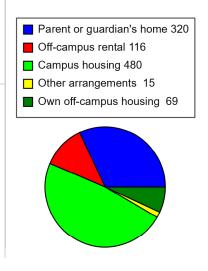


107. The circle graph is a result of surveying 1000 college students. They were asked where they live while attending college. Use this graph to find where most of these college students live.

Choose the correct answer below.

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



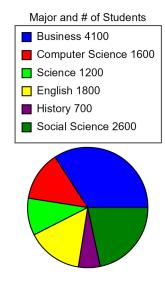


108.

The circle graph shows the number of students at Rockford College who are enrolled in various majors. Find the ratio of History majors to Social Science majors.

The ratio is

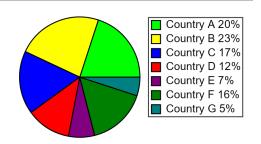
(Type an integer or a simplified fraction.)



Answer: 7

26

109. The total amount of land of some particular countries is approximately 61,000,000 square miles. Use the graph to find the area of the Country F.

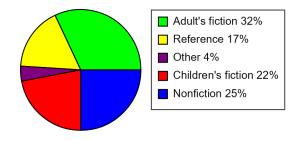


The area of the Country F is approximately square miles.

Answer: 9,760,000

110. The circle graph to the right shows the percent of the types of books available in a library.

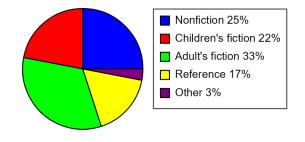
If the library has 122,000 books, find how many books are classified as Children's fiction.



The number of books classified as Children's fiction is ______(Type a whole number.)

Answer: 26,840

111. If this library has 213,000 books, find how many books are in the category of reference or other?



The number of books in the reference or other category is _____ books.

Answer: 42,600

112.

Find the square root.

 $\sqrt{49}$

Answer: 7

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



The length of the third side is

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114.	Sketch the right triangle and find the length of the side not given. If necessary, approximate the length to the nearest
	thousandth.

$$leg = 15, leg = 8$$

What is the length of the side not given?

(Round to the nearest thousandth as needed.)

Answer: 17

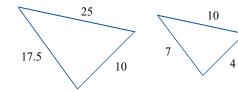
115. Sketch the right triangle and find the length of the side not given.

The unknown length is

(Type an integer or decimal rounded to the nearest thousandth as needed.)

Answer: 12

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

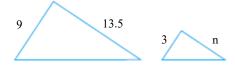


The ratio of the corresponding sides of the first triangle to the second triangle is

(Type the ratio as a simplified fraction.)

Answer: $\frac{5}{2}$

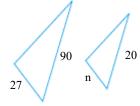
117. Given that the pair of triangles is similar, find the length of the side labeled n.



n =

Answer: 4.5

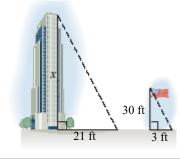
118. Given that the pair of triangles is similar, find the length of the side labeled n.



n =

Answer: 6

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



The height of the building is feet.

Answer: 210

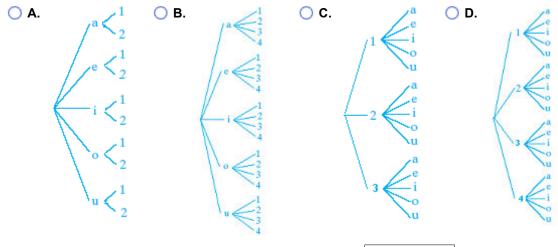
120. If a 30-foot tree casts an 18-foot shadow, find the length of the shadow cast by a 28-foot tree.

The length of the tree's shadow is feet.

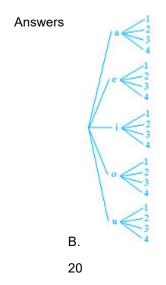
(Type an integer or a decimal rounded to the nearest tenth.)

Answer: 16.8

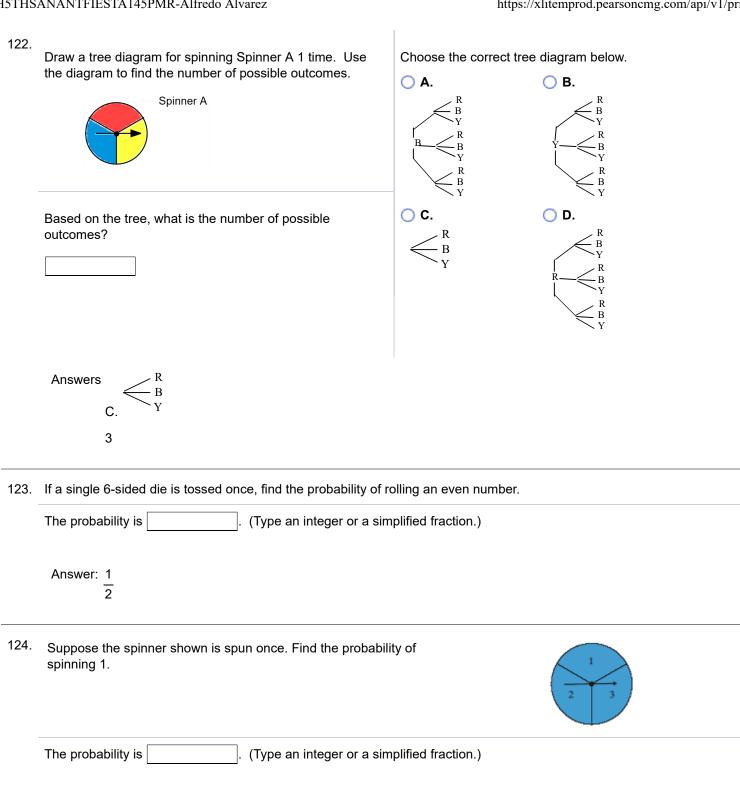
121. Draw a tree diagram for choosing a vowel, (a, e, i, o, u) and then a number (1, 2, 3 or 4). Use the diagram to find the number of possible outcomes.



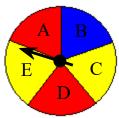
Based on the tree, what is the number of possible outcomes?



Answer: 1

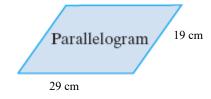


125. Suppose that the spinner shown is spun once. Find the probability of the event that the result of a spin is A, B, C, D, or E.



	The probability is (Simplify your answer.)
	Answer: 1
126.	A marble is selected at random from a jar containing 2 red marbles, 3 yellow marbles, and 6 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.)
	Answer: 2
	11
127.	Find the perimeter of the following figure.
	8 ft Rectangle
	13 ft
	Perimeter = (1)
	(1) Oft
	o sq. ft
	Answers 42
	(1) ft

128. Find the perimeter of the following figure.



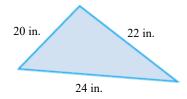
Perimeter = (1)

- (1) o sq. cm
 - O cm

Answers 96

(1) cm

129. Find the perimeter of the following figure.



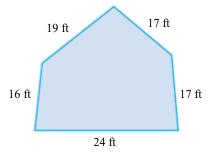
The perimeter is (1)

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

Answers 66

(1) in.

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



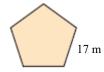
Perimeter = (1)

- (1) O sq. ft.
 - O ft.

Answers 93

(1) ft.

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



Perimeter = (1)

- (1) O sq m
 - _ m

Answers 85

(1) m

132. A computer has shape of a rectangular solid. Find the volume of the computer, with dimensions of 2 inches by 2 inches by 2.9 inches.

The volume of the computer is (1) (Simplify your answer. Type an integer or a decimal.)

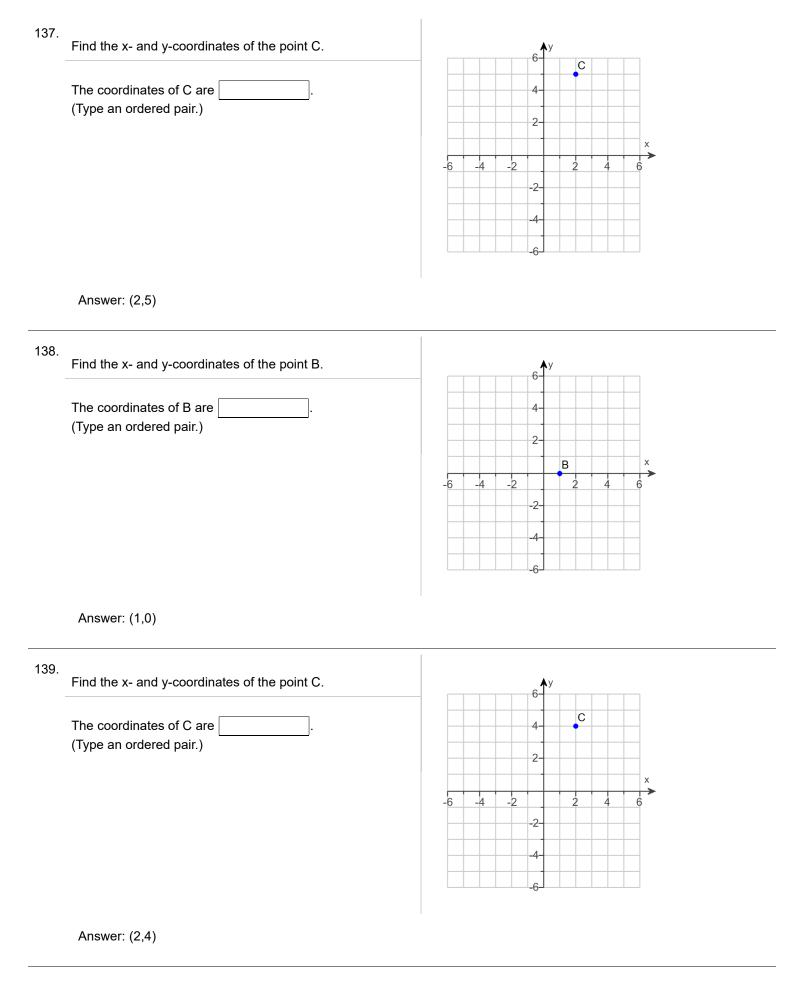
(1) O cu in.

- O in.
- o sq in.

Answers 11.6

(1) cu in.

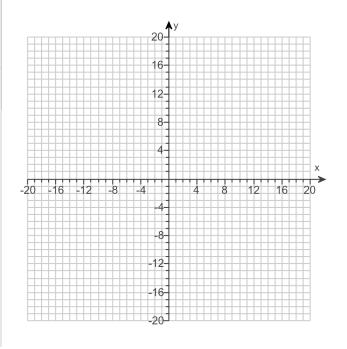
133	Insert <, >, or = in the space between the paired numbers to make the statement true.
100.	8 6
	86
	Answer: >
134.	Insert <, >, or = in the space between the paired numbers to make the statement true.
	5.73 ? 5.73
	5.73 5.73
	Answer: =
135.	Insert <, >, or = in the space between the paired numbers to make the statement true.
	03
	0 (1) 3
	(1) 🔘 >
	○ = ○ <
	Answer: (1) <
136.	Use the commutative and associative properties to simplify the expression.
	(17 + a) + 17
	(17 + a) + 17 =
	Answer: a + 34

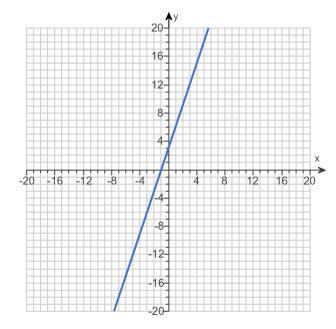


Graph the equation.

$$y = 3x + 3$$

Use the graphing tool to graph the line.

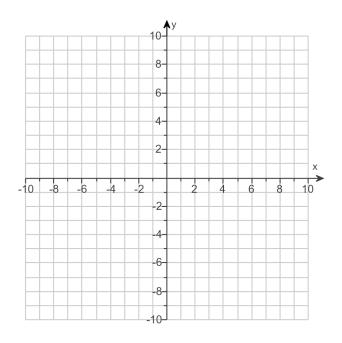


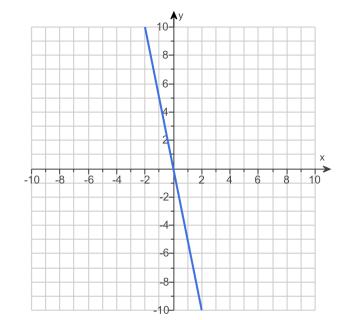


Graph the linear equation.

$$y = -5x$$

Use the graphing tool to graph the linear equation.

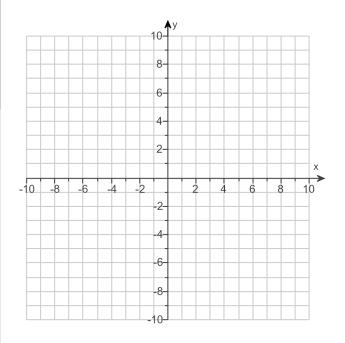


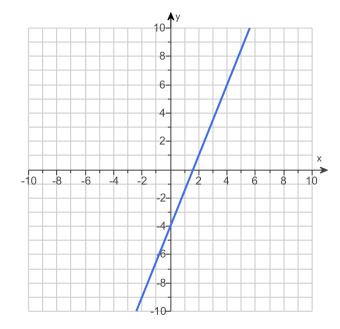


Graph the linear equation.

$$y = 2.5x - 4$$

Use the graphing tool to graph the equation.





143. Given the following function, find f(-1), f(0), and f(4).

$$f(x) = 5x + 5$$

Answers 0

5

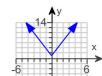
25

144. Graph the function.

$$f(x) = 3x - 1$$

Choose the correct graph below.

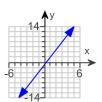
O A.



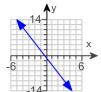
B.



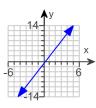
O C.



O D.

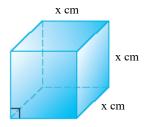


Answer:



C.

145. The function $V(x) = x^3$ 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.



The volume is cubic centimeters. (Type an integer or a decimal.)