	udent: Instructor: Alfredo Alv ate: Course: Math 0410 / 0		Assignm M3RDGE	ent: OWHOLEFIESTA145N150PPMR
1.	Determine the place value of the digit 5 in the whole number.			
	656			
	Choose the correct answer below.			
	O Hundreds			
	Thousands			
	O Tens			
	Ones			
	Answer: Tens			
2.	Write the whole number in expanded form.			
	6190			
	0190			
	6190 = (Type your answer using plus signs.))		
	Answer: 6000 + 100 + 90			
		1		
3.	The table shows the number of calories burned during 30	Activity	110 lb	130 lb
	minutes of exercise and how the number of calories burned	Moderate jogging	310	367
	varies according to the weight of the person doing the	Moderate walking		130
	exercise. For a person weighing 130 pounds, how many calories will be burned during 30 minutes of	Moderate cycling	142	168
	moderate cycling?	Aerobic dance	195	230
	moustate systing.	Racquetball	216	255
		Tennis	162	191
	calories			
	_			
	Answer: 168			

4. 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
Tennis	166	193

Choose the correct answer below

- O A. Moderate walking
- OB. Racquetball
- O. Moderate cycling
- O D. Tennis
- O E. Moderate jogging
- F. Aerobic dance

Answer: B. Racquetball

5. 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
Tenisei-Angara (Russia) Mississippi-Missouri (U.S.)	3442
Mississippi-Missouri (U.S.)	3740
Nile (Egypt)	4145

Which river is the fifth longest in the world?

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

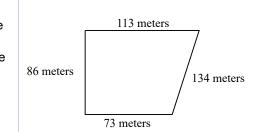
Answer: Tenisei-Angara

The table shows the top ten popular breeds of dogs.	Use the Top	Ten Popular Breed	ds of Dogs
table to answer the following question. Which breed has a greater average weight, the German shepherd or the Boxer?	Bree	Average Dog Maximum Height (in inches)	Average Dog Maximum Weight (in pounds)
The (1) has a greater average weig	Labrador aht. retriever		75
The (1) has a greater average weig	German shephero	26	95
	Golden retriever	24	80
	Beagle	15	30
	Bulldog	26	90
	Yorkshire terrier	9	7
	Boxer	25	70
	Poodle		standard: 70
	Rottweile		none given
	Dachshu	nd 9	25
. Add.			
71 + 26			
The sum is			
Answer: 97			
. Add.			
19 + 420			
19			
+ 420			

9.	Subtract.		
	91 <u>- 66</u>		
_	The difference is		
	Answer: 25		
10.	Subtract.		
	82 – 75		
	The answer is		
	Answer: 7		
11.	Find the perimeter of the figure.	8 feet 9	feet
	The perimeter is feet. Answer: 27		
12.	Find the perimeter of the figure. ft Answer: 28	Rectangle 9 feet	5 feet
13.	Find the perimeter of the figure. cm	18 centimeters 4 centimeters 5 centimeters 17 centimeters	8 centimeters 17 centimeters

14.	4. Find the difference of 56 and 22.	
	The difference is	
	Answer: 34	
15.	5. What is 584 increased by 43?	
	584 increased by 43 is	
	Answer: 627	
16.	6. A new notebook computer with DVD player costs \$1024. Derik Muller hat be left in his checking account after he buys the notebook computer?	s \$1233 in his checking account. How much will
	Derik will have \$ remaining in his checking account after	he buys the notebook computer.
	Answer: 209	
17.	7. Find the total land area drained by the C and D sub-basins.	River Basin 500 530,000 249,000 185,000 79,000 50,000 0 A B C D E F
	sq mi	
	Answer: 264,000	
18.	8. How many more square miles of land is drained by the A sub-basin than the B sub-basin? Sequence of land is drained by the A sub-basin than the B sub-basin?	River Basin 500,570,000 246,000 185,000 75,000 40,000 0 A B C D E F
	sq mi	
	Answer: 324,000	

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?



m

Answer: 406

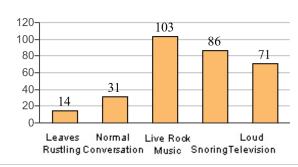
20. Evelyn Abrams is reading a 980-page book. If she has just finished reading page 433, how many more pages must she read to finish the book?

pages

Answer: 547

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

Decibel Levels for Common Sounds

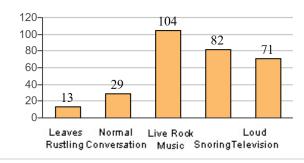


dB

Answer: 103

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

Decibel Levels for Common Sounds



dB

Answer: 53

23.	A permanent game board is made of granite. It is in the shape the square playing board.	e of a square with s	side lengths of 43 ft. Find the	perimeter of
	The perimeter is feet.			
	Answer: 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.	Illinois	28	
		New York	34	
		Michigan	86	
		Minnesota	194	
		Ohio	41	
		Texas	87	
	Answer: 409			
25.	A particular state has 2037 miles of urban highways and 3828 the state.	3 miles of rural high	nways. Find the total highway	mileage in
	The total highway mileage in the state is mile	es.		
	Answer: 5865			
26.	Round 274 to the nearest ten.			
	274 rounded to the nearest ten is			
	Answer: 270			
27.	Round 185 to the nearest ten.			
	185 rounded to the nearest ten is			
	Answer: 190			
28.	Round 1,888 to the nearest hundred.			
	The number 1,888 rounded to the nearest hundred is			
	Answer: 1,900			

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
31.	Estimate the perimeter of the rectangle by first 69 meters
	rounding the length of each side to the nearest ten. Rectangle 14 meters
	The estimated perimeter is meters.
	Answer: 160
32.	Multiply. 83
	83 × 6
	Answer: 498
33.	Multiply.
	46 × 69
	<u></u>
	The product is
	Answer: 3174

34.		7 meters	
	Find the area and the perimeter of the rectangle shown to the right.		
			5 meters
			5 meters
	The area of the rectangle is (1)		
	The perimeter of the rectangle is (2)		
	(1) meters.		
	Answers 35		
	(1) square meters.		
	24		
	(2) meters.		
	(2) motors.		
35.	Estimate the product by rounding each factor to the nearest hundred.		
	694×164		
	694 × 164 ≈		
	Answer: 140,000		
36.	One triple fudge brownie contains 127 calories. How many calories are	in 13 triple fudge brownies?	
	calories		
	Answer: 1651		
37.	A plot of land measures 70 feet by 160 feet. Find its area.		
	The area of the rectangle is (1)		
	(1) O cubic feet.		
	o square feet.		
	O feet.		
	Answers 11,200		
	(1) square feet.		
	(./		

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

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?

The company produces ______ tea bags in one day of operation.

Answer: 4,320,000

40. Find the following quotient.

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

- \bigcirc **A.** 22 ÷ 2 = (Simplify your answer.)
- OB. The answer is undefined.

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

41. Find the quotient.

$$\frac{24}{4}$$

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

- $\frac{}{4} = \frac{}{}$
- OB. The answer is undefined.

Answer: A. $\frac{24}{4} = 6$

42. Find the following quotient.

$$20 \div 4$$

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

- A. 20 ÷ 4 = (Simplify your answer.)
- OB. The answer is undefined.

Answer: A. 20 ÷ 4 = **5** (Simplify your answer.)

M3RDGEOWHOLEFIESTA145N150PPMR-Alfredo Alvar	ez

43.	Divide the following and then check by multiplying.		
	2)96 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		
44.	Divide the following and then check by multiplying.		
	6)159		
	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.		
	○ A. The quotient does not have a remainder. The quotient is		
	B. The quotient has a remainder not equal to 0. The quotient isR		
	C. The quotient is undefined.		
	Answer: B. The quotient has a remainder not equal to 0. The quotient is 26 R 3.		
45.	For their wedding, Ben and Jen paid \$15 for each guest's dinner. The total bill was \$2250. How many guests did they have at their wedding?		
	guests		
	Answer: 150		
46.	A truck hauls wheat to a storage granary. It carries a total of 6,390 bushels of wheat in 18 trips. How much does the truck haul each trip if each trip it hauls the same amount?		
	The truck hauls bushels each trip.		
	Answer: 355		
47.	Find the average value of the following list of numbers.		
	10, 25, 43, 28, 14, 18		
	The average value is		
	Answer: 23		

48. Find the value of the expression.

Answer: 25

49. Evaluate.

4⁴

Answer: 256

50. Simplify.

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

OB. The expression is undefined.

51. Simplify.

$$10 \div 2 \cdot 5 + 6$$

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

OB. The expression is undefined.

52. Simplify.

$$24 \div 3 - 3$$

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

OB. The expression is undefined.

53. Simplify.

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

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.

- A. 2•4+4•2=
- B. The expression is undefined.

55. Simplify.

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

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

- \bigcirc **A.** $(2+6) \cdot (7-4) =$
- OB. The expression is undefined.

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

6 meters	
----------	--

The area of the square is (1)

The perimeter of the square is (2)

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

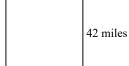
Answers 36

(1) square meters.

24

(2) meters.

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 (2)

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

Answers 1764

(1) square miles.

168

(2) miles.

58. Evaluate the expression for z = 3.

$$4 + 5z$$

Answer: 19

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

$$3xz - 2x$$

Answer: 16

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

$$z - x + y$$

The answer is

Answer: 5

61. Evaluate the expression for x = 2 and z = 5.

$$6x - z$$

Answer: 7

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

$$y^3 - 3x$$

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.

$$\frac{2y-6}{x}$$

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

Answer: 3

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

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

Answer: 7

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

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

Is 14 a solution of n - 11 = 3?

- O No
- Yes

Answer: Yes

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

Is 4 a solution of 29 = 70n?

- O Yes
- O No

Answer: No

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

Is 4 a solution?

- O Yes
- O No

Answer: No

OLO	THE BELLES HIT IS IN ISOT I WHICH I MINUTED IN VALUE	nups/miemprouspearsonemg.com/ap/////prima
70.	Decide whether the number is a solution of the equation.	
	Is 19 a solution of 2(n − 12) = 14?	
	O No	
	O Yes	
	Answer: Yes	
71.	Decide whether the number is a solution of the equation.	
	Is 6 a solution of 3f = 24 - f?	
	O Yes	
	O No	
	Answer: Yes	
72	Determine which numbers in the set are solutions of the equation	

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.

- A. in the set $\{12, 14, 16\}$ is a solution of the equation n - 4 = 10.
- OB. None of the numbers in the set are solutions of the equation

Answer: A. 14 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.

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

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

- in the set $\{5, 9, 13\}$ is a solution of the equation 4x 5 = 2x + 21.
- B. None of the numbers in the set are solutions of the equation.

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

Choose the correct answer below. A. n = 0 B. n = 17 C. n = 5 D. n = 3 Answer: C. n = 5 75. Simplify. 8 • 4 ² 8 • 4 ² = Answer: 128 76. Simplify. 6 + 7 • 4 - 11 6 + 7 • 4 - 11 = Answer: 23 77. Solve. Check your solution. x + 9 = 20 The solution is x = Answer: 11 78. Solve. 7x = 14 The solution is x = Answer: 2	74.	You are given the following equation: $3n + 2 = 17$. Which of the following is a solution to the equation?
 B. n = 17 C. n = 5 D. n = 3 Answer: C. n = 5 75. Simplify. 8 ⋅ 4² =		Choose the correct answer below.
 B. n = 17 C. n = 5 D. n = 3 Answer: C. n = 5 75. Simplify. 8 ⋅ 4² 8 ⋅ 4² 8 ⋅ 4² 8 ⋅ 7 ⋅ 4 - 11 6 + 7 ⋅ 4 - 11 Answer: 23 77. Solve. Check your solution. x + 9 = 20 The solution is x =		A. n=0
Answer: C. n = 5 75. Simplify. 8 • 4 ² 8 • 4 ² =		
Answer: C. n = 5 75. Simplify. 8 • 4^2 8 • 4^2 =		○ C. n=5
75. Simplify. $8 \cdot 4^2$ $8 \cdot 4^2 = $		○ D . n=3
8 · 4 ² 8 · 4 ² 8 · 4 ² Answer: 128 76. Simplify. 6 + 7 · 4 - 11 6 + 7 · 4 - 11 =		Answer: C. n = 5
8 • $4^2 =$	75.	Simplify.
Answer: 128 76. Simplify. $6+7\cdot4-11$ $6+7\cdot4-11=$ Answer: 23 77. Solve. Check your solution. $x+9=20$ The solution is $x=$ Answer: 11 78. Solve. $7x=14$ The solution is $x=$		$8 \cdot 4^2$
76. Simplify. 6+7•4-11 6+7•4-11= Answer: 23 77. Solve. Check your solution. x+9=20 The solution is x= Answer: 11 78. Solve. 7x= 14 The solution is x=		8 • 4 ² =
76. Simplify. 6+7•4-11 6+7•4-11= Answer: 23 77. Solve. Check your solution. x+9=20 The solution is x= Answer: 11 78. Solve. 7x= 14 The solution is x=		Answer: 128
6+7•4-11 6+7•4-11= Answer: 23 77. Solve. Check your solution. x+9=20 The solution is x= Answer: 11 78. Solve. 7x= 14 The solution is x=		
$6+7 \cdot 4-11 = $	76.	Simplify.
Answer: 23 77. Solve. Check your solution. $x + 9 = 20$ The solution is $x = $ Answer: 11 78. Solve. $7x = 14$ The solution is $x = $		6 + 7 • 4 - 11
77. Solve. Check your solution. $x + 9 = 20$ The solution is $x = $ Answer: 11 78. Solve. $7x = 14$ The solution is $x = $		6 + 7 • 4 - 11 =
x + 9 = 20 The solution is $x = $ Answer: 11 78. Solve. $7x = 14$ The solution is $x =$		Answer: 23
The solution is x = Answer: 11 78. Solve. 7x = 14 The solution is x =	77.	Solve. Check your solution.
Answer: 11 78. Solve. 7x = 14 The solution is x =		x + 9 = 20
78. Solve. $7x = 14$ The solution is $x = $		The solution is x =
7x = 14 The solution is $x =$		Answer: 11
The solution is x =	78.	Solve.
		7x = 14
Answer: 2		The solution is x =
		Answer: 2

79. Solve the following equation.

$$6x - 6 = 0$$

Answer: 1

80. Solve the equation.

$$5n + 25 = 55$$

Answer: 6

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



A fraction which represents the figure is

Answer: $\frac{3}{7}$

- 82. Represent the shaded part of the group of circles with
 - A. an improper fraction and
 - **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 $\frac{7}{4}$

$$1\frac{3}{4}$$

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





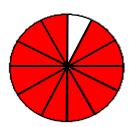


- A. The improper fraction that represents the shaded area of the figure group is
- **B.** The mixed number that represents the shaded area of the figure group is

Answers $\frac{7}{4}$

 $1\frac{3}{4}$

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

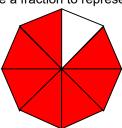


The fraction which represents the shaded region is

Answer: 11

12

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



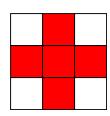
The fraction representing the shaded part is

Answer: 7

8

86.

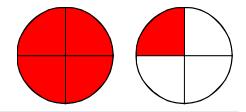
Write a fraction to represent the shaded region of the figure.



Answer: $\frac{5}{9}$

The fraction that represents the shaded region of this figure is

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



(a) Write the shaded area as an improper fraction.

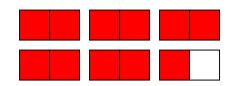
(b) Write the shaded area as a mixed number.



Answers $\frac{5}{4}$

$$1\frac{1}{4}$$

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



a. Write the shaded area as an improper fraction.

b. Write the shaded area as a mixed number.

Answers 11

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

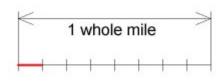
89. Write a fraction to represent the shaded part of the syringe.



The fraction represented by the shaded parts is

Answer: $\frac{3}{6}$

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



The fraction that represents the shaded part is

Answer: $\frac{1}{8}$

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.

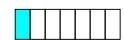
Which object represents the fraction $\frac{2}{7}$?

Choose the correct answer below.

O A.



<u>)</u> В.



O C.



O D.



E. None of the above.

Answer:

C.

22 of 42

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.









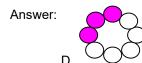






O E.

None of the above.



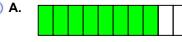
93.

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.

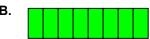
Which figure represents the fraction $\frac{8}{8}$?

Choose the correct answer below.

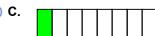




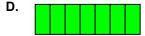


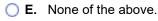












Answer:



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

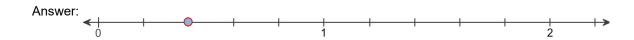
Answer: 29

30

95. Graph the fraction on a number line.

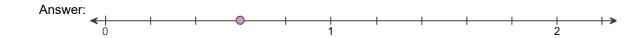






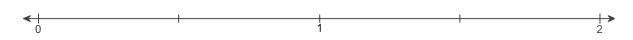
96. Graph the fraction on a number line.





97. Graph the fraction on a number line.

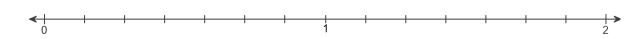


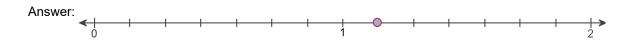




98. Graph the fraction on a number line.







99.	Write the number 44 as a product of prime factors
	44-

Answer: 2² • 11

100. Find the prime factorization of the following number.

92

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

25 of 42

105.

Write the fraction in lowest terms.

Answer: $\frac{6}{7}$

42	
$\frac{72}{49} =$	
49	<u> </u>

106. Add.

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

$$\frac{1}{5} + \frac{2}{5} =$$
 [Simplify your answer. Type an integer or a fraction.)

Answer: $\frac{3}{5}$

107. Add and simplify.

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

$$\frac{1}{12} + \frac{7}{12} =$$
 [Type an integer or a simplified fraction.)

Answer: $\frac{2}{3}$

108. Round the monetary amount to the nearest dollar.

\$24.07

\$24.07 rounded to the nearest dollar is \$

Answer: 24

109. Add.

$$6.3 + 2.1$$

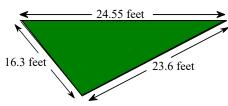
Answer: 8.4

110. Add the following.

$$2.1 + 5.16$$

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 ______ feet. (Type an integer or a decimal.)

Answer: 64.45

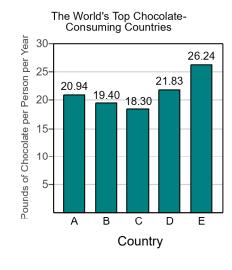
The bar graph shows the top five chocolate-consuming nations in the world. Use this graph to answer the following.

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

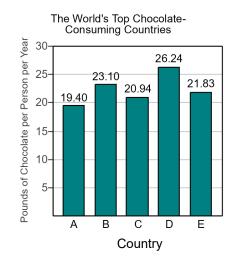


113. The bar graph shows the top five chocolate-consuming nations in the world. Use this graph to answer the following.

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)	
(2)	
(3)	
(4)	
(5)	



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

Country D

Country E

Country A

Country E Country D

- Country D
 - Country C
- Country B

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

4/11/2019, 11:06 AM 28 of 42

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.





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 coins can have a value of \$0.17 given that you may use no more than 10 coins.

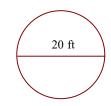


Choose the correct answer below. Select all that apply.

- A. 3 nickels and 2 pennies
- B. 3 nickels and 6 pennies
- C. 1 dime and 7 pennies
- D. 2 nickels and 7 pennies
- E. 1 dime, 2 nickels and 3 pennies
- F. 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 circumference.



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

The exact circumference is ft

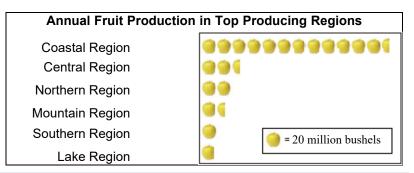
b. Find the circumference of the circle using 3.14 as an approximation for π .

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

Answers 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?



Which region produced the greatest quantity of fruit?

A. The mountain region

B. The southern region

C. The lake region

O. The northern region

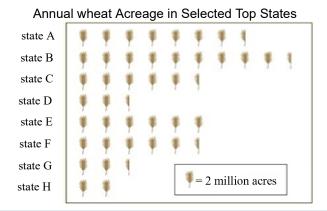
E. The central region

F. 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.



The number of acres of wheat planted in state E is approximately _____ million acres.

(Type an integer or a decimal.)

Answer: 12

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	00000001	
Mountain Region	00000	
Central Region		
Southern Region Northern Region		
Lake Region	= 30 million bushels	

Choose the correct answer below.

A. The northern region

C. The lake region

E. The mountain region

OB. The central region

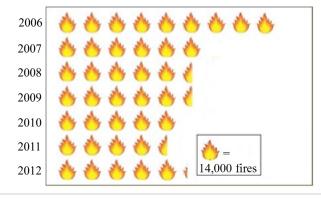
O. The southern region

The coastal region

Answer: F. The coastal region

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.



The number of wildfires in the year 2011 is approximately

(Type an integer or a decimal.)

Answer: 63,000

121. The pictograph shows the annual number of wildfires in a region between 2000 and 2005. What was the amount of decrease in wildfires from 2003 to 2004?



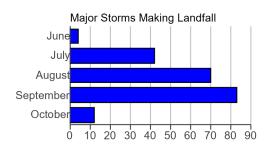
 λ = 14,000 fires

The number of wildfires in the region decreased by about

from 2003 to 2004.

Answer: 77,000

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



In which month did the most major storms make landfall in the region?

- October
- August
- O July

- 0
 - Cannot be determined

September

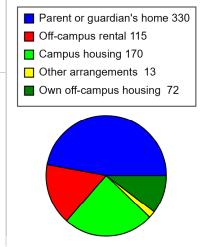
June

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.

- Own off-campus housing
- OB. Off-campus rental
- O. Parent or guardian's home
- O D. Campus housing
- OE. Other arrangements



Answer: C. Parent or guardian's home

124.

Find the square root.

 $\sqrt{4}$

Answer: 2

 $\sqrt{4} =$

32 of 42

125.

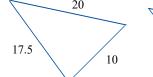
Find the length of the third side of the right triangle.



The length of the third side is

Answer: 5

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



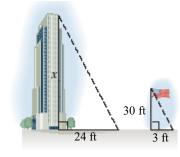


The ratio of the corresponding sides of the first triangle to the second triangle is

(Type the ratio as a simplified fraction.)

Answer: 5 2

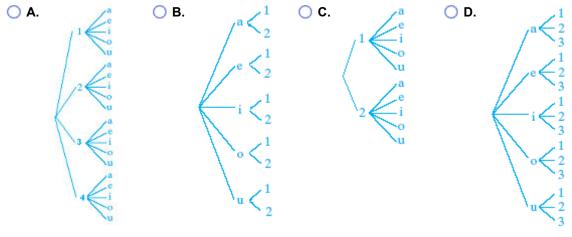
127. A triangle is formed by the building's height and shadow. Another triangle is formed by the flagpole's height and shadow. Using the following diagram, find the height of the building.



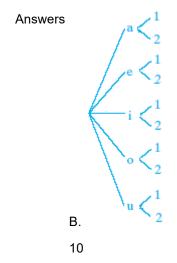
The height of the building is feet.

Answer: 240

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.



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



129.

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



Spinner A

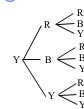
Based on the tree, what is the number of possible outcomes?

ies.

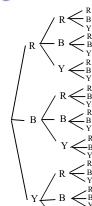


O B.

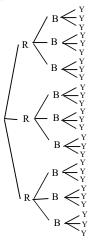
Choose the correct tree diagram below.



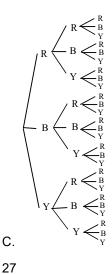
O C.



O D.



Answers



130. A marble is selected at random from a jar containing 6 red marbles, 2 yellow marbles, and 4 green marbles.

What is the probability that the marble is red?

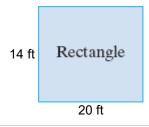
The probability that the marble is red is

. (Type an integer or a simplified fraction.)

Answer: 1

2

131. Find the perimeter of the following figure.

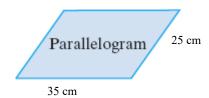


- (1) O ft
 - o sq. ft

Answers 68

(1) ft

132. Find the perimeter of the following figure.

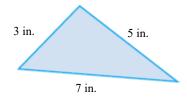


- (1) O sq. cm
 - o cm

Answers 120

(1) cm

133. Find the perimeter of the following figure.



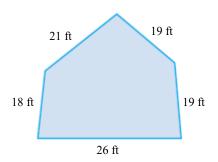
The perimeter is (1)

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

Answers 15

(1) in.

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



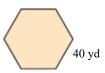
Perimeter = (1)

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

Answers 103

(1) ft.

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



Perimeter = (1)

- (1) O sq yd
 - O yd

Answers 240

(1) yd

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

	47 in.
--	--------

Perimeter = (1)

(1) O sq in.

O in.

Answers 188

(1) in.

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

Perimeter = (1)

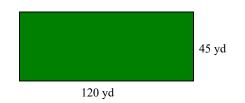
(1) Oft.

O sq. ft

Answers 16

(1) ft.

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



Perimeter = (1)

(1) O yd

O sq. yd

Answers 330

(1) yd

139.	A metal strip is being installed around a workbench that is 8 feet long and 4 feet wide. Find how much stripping is needed.		
	The amount of metal stripping needed to be installed around the workbench is (1)		
	(1)		
	Answers 24		
	(1) ft.		
140.	Find the perimeter of the top of a square compact case if the length of one side is 16 inches.		
	The perimeter is (1)		
	(1) Square inches. Cubic inches. inches.		
	Answers 64		
	(1) inches.		
141.	Find the distance around the given figure. 4.5 mi 15 mi 8 mi		
	The distance around the figure is (1)		
	(1)		
	Answers 39.5		
	(1) mi.		

142.	Find the distance around the regular pentagon shown to the right.
	The distance around the figure is (1)
	(1) O m. O sq m.
	Answers 95
	(1) m.
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 sq ft.
	Answer: 126
144.	Convert the measurement indicated.
	48 in to feet
	48 in = ft
	Answer: 4
145.	Convert the measurement as indicated.
	18 yd to feet
	18 yd = ft
	Answer: 54
146.	Insert <, >, or = in the space between the paired numbers to make the statement true.
	8 10
	8 (1) 10
	(1) O > O <
	0 =
	Answer: (1) <

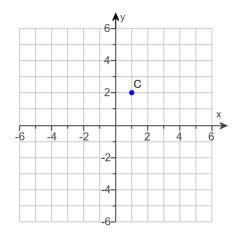
147. Use the commutative and associative properties to simplify the expression.

$$(14 + a) + 14$$

Answer: a + 28

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

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



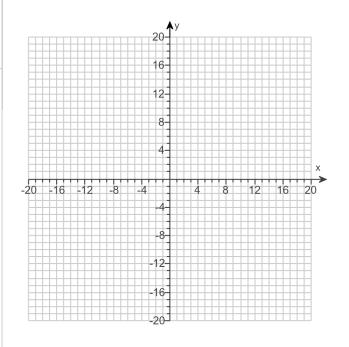
Answer: (1,2)



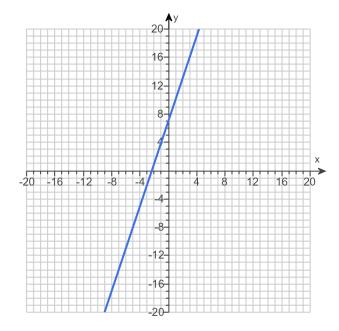
Graph the equation.

$$y = 3x + 7$$

Use the graphing tool to graph the line.

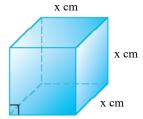


Answer:



150. 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.)

Answer: 216