| Student: | Instructor: Alfredo Alvarez | Assignment: |
| :--- | :--- | :--- |
| Date: | Course: Math 0410/0320 Alvarez | M3RDGEOWHOLEFIESTA145N150PPMR |

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

656
Choose the correct answer below.HundredsThousandsTensOnes

Answer: Tens
2. Write the whole number in expanded form.

6190
$6190=$ $\qquad$ (Type your answer using plus signs.)

Answer: 6000 + 100 + 90
3.

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 130 pounds, how many calories will be burned during 30 minutes of moderate cycling?

| Activity | $\mathbf{1 1 0} \mathbf{~ l b}$ | $\mathbf{1 3 0} \mathbf{~ l b}$ |
| :--- | :--- | :--- |
| Moderate jogging | 310 | 367 |
| Moderate walking | 110 | 130 |
| Moderate cycling | 142 | 168 |
| Aerobic dance | 195 | 230 |
| Racquetball | 216 | 255 |
| Tennis | 162 | 191 |

$\qquad$ 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 $\quad 120$ lb 140 lb
Moderate jogging 344402
Moderate walking 120140
Moderate cycling 151176
Aerobic dance 211246
Racquetball 235274
Tennis 166193

Choose the correct answer belowA. Moderate walkingB. RacquetballC. Moderate cyclingD. TennisE. Moderate joggingF. 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) | 3442 |
| Mississippi-Missouri (U.S.) | 3740 |
| Nile (Egypt) | 4145 |

Which river is the fifth longest in the world?Mississippi-MissouriChang jiang-YangtzeAmazonNileTenisei-Angara

[^0]6.

The table shows the top ten popular breeds of dogs. Use the table to answer the following question.

Which breed has a greater average weight, the German shepherd or the Boxer?

The (1) $\qquad$ has a greater average weight.

Top Ten Popular Breeds of Dogs

| Breed | Average <br> Dog <br> Maximum <br> Height <br> (in inches) | Average Dog <br> Maximum <br> Weight <br> (in pounds) |
| :--- | :---: | :---: |
| Labrador <br> retriever | 25 | 75 |
| German <br> shepherd | 26 | 95 |
| Golden <br> retriever | 24 | 80 |
| Beagle | 15 | 30 |
| Bulldog | 26 | 90 |
| Yorkshire <br> terrier | 9 | 7 |
| Boxer | 25 | 70 |
| Poodle | standard: 26 | standard: 70 |
| Rottweiler | 26 | none given |
| Dachshund | 9 | 25 |

(1)

## Boxer

German shepherd

Answer: (1) German shepherd
7. Add.
$71+26$
The sum is $\qquad$ .

Answer: 97
8. Add.

19
$+420$

Answer: 439
9. Subtract.

91

- 66

The difference is $\qquad$ .

Answer: 25
10. Subtract.

82-75

The answer is $\qquad$ .

Answer: 7
11. Find the perimeter of the figure.


The perimeter is $\qquad$ feet.

Answer: 27
12.

Find the perimeter of the figure.
ft


Answer: 28
13.

Find the perimeter of the figure.
$\qquad$ cm


Answer: 69
14. Find the difference of 56 and 22.

The difference is $\qquad$ .

Answer: 34
15. What is 584 increased by 43 ?

584 increased by 43 is $\qquad$ .

Answer: 627
16. A new notebook computer with DVD player costs $\$ 1024$. Derik Muller has $\$ 1233$ in his checking account. How much will be left in his checking account after he buys the notebook computer?

Derik will have \$ $\qquad$ remaining in his checking account after he buys the notebook computer.

Answer: 209
17. Find the total land area drained by the $C$ and $D$ sub-basins.

$\qquad$ sq mi

Answer: 264,000
18. How many more square miles of land is drained by the $A$ sub-basin than the B sub-basin?
 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?

$\qquad$

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?
$\qquad$ 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

Decibel Levels for Common Sounds normal conversation?

dB

Answer: 53
23. A permanent game board is made of granite. It is in the shape of a square with side lengths of 43 ft . Find the perimeter of the square playing board.

The perimeter is $\qquad$ feet.

Answer: 172
24.

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 $\qquad$ stores are located in the three states with the most stores.

| State | Number of Stores |
| :--- | :---: |
| Arizona | 55 |
| California | 66 |
| Florida | 128 |
| Georgia | 83 |
| 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 miles of rural highways. Find the total highway mileage in the state.

The total highway mileage in the state is $\qquad$ miles.

Answer: 5865
26. Round 274 to the nearest ten.

274 rounded to the nearest ten is $\qquad$ .

Answer: 270
27. Round 185 to the nearest ten.

185 rounded to the nearest ten is $\qquad$ .

Answer: 190
28. Round 1,888 to the nearest hundred.

The number 1,888 rounded to the nearest hundred is $\qquad$ .

Answer: 1,900
29. Round 195 to the nearest ten.

195 rounded to the nearest ten is $\qquad$ .

Answer: 200
30. Round 86,348 to the nearest thousand.

86,348 rounded to the nearest thousand is $\qquad$ .

Answer: 86,000
31. Estimate the perimeter of the rectangle by first rounding the length of each side to the nearest ten.

The estimated perimeter is $\qquad$ meters.

Answer: 160
32.

Multiply.
83
6

Answer: 498
33. Multiply.

46
$\times 69$

The product is $\qquad$ .

Answer: 3174
34.

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

The area of the rectangle is $\qquad$ (1) $\qquad$

The perimeter of the rectangle is $\qquad$ (2) $\qquad$
(1)meters.
$(2) \bigcirc$ meters.
square meters.cubic meters.cubic meters.square meters.

Answers 35
(1) square meters.

24
(2) meters.
35. Estimate the product by rounding each factor to the nearest hundred.
$694 \times 164$
$694 \times 164 \approx$ $\qquad$

Answer: 140,000
36. One triple fudge brownie contains 127 calories. How many calories are in 13 triple fudge brownies?
$\qquad$ calories

Answer: 1651
37. A plot of land measures 70 feet by 160 feet. Find its area.

The area of the rectangle is $\qquad$ (1) $\qquad$
(1) cubic feet.
square feet.
feet.

Answers 11,200
(1) square feet.
38. One ounce of nuts contains 167 calories. How many calories are in 15 ounces of nuts?
$\qquad$ 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 $\qquad$ tea bags in one day of operation.

Answer: 4,320,000
40. Find the following quotient.
$22 \div 2$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.A. $22 \div 2=$ (Simplify your answer.)B. The answer is undefined.

Answer: A. $22 \div 2=$ $\qquad$ (Simplify your answer.)
41. Find the quotient.
$\frac{24}{4}$

Select the correct choice below and fill in any answer boxes in your choice.A. $\frac{24}{4}=$
B. The answer is undefined.

Answer: A. $\frac{24}{4}=$ $\qquad$
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. $20 \div 4=$ $\qquad$ (Simplify your answer.)B. The answer is undefined.

Answer: A. $20 \div 4=$ $\qquad$ (Simplify your answer.)
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.A. The quotient does not have a remainder. The quotient is $\qquad$ .B. The quotient has a remainder not equal to 0 . The quotient is $\qquad$ R
$\qquad$ -
C. The quotient is undefined.

Answer: A. The quotient does not have a remainder. The quotient is $\qquad$ 48
44. Divide the following and then check by multiplying.
$6 \longdiv { 1 5 9 }$
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 $\qquad$ .B. The quotient has a remainder not equal to 0 . The quotient is $\qquad$ R
$\qquad$ .
C. The quotient is undefined.

Answer: B. The quotient has a remainder not equal to 0 . The quotient is $\qquad$ R $\qquad$ .
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?
$\qquad$ 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 $\qquad$ 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 $\qquad$ .

Answer: 23
48. Find the value of the expression.

$$
\begin{gathered}
5^{2} \\
5^{2}=\square \\
\hline
\end{gathered}
$$

Answer: 25
49. Evaluate.
$4^{4}$
$4^{4}=$ $\qquad$

Answer: 256
50. Simplify.
$15+9 \cdot 6$
Select the correct choice below and, if necessary, fill in the answer box to complete your choice.A. $15+9 \cdot 6=$B. The expression is undefined.

Answer: A. $15+9 \cdot 6=$ $\qquad$
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.A. $10 \div 2 \cdot 5+6=$ $\qquad$B. The expression is undefined.

Answer: A. $10 \div 2 \cdot 5+6=$ $\qquad$
52. Simplify.
$24 \div 3-3$
Select the correct choice below and, if necessary, fill in the answer box to complete your choice.
A. $24 \div 3-3=$ $\qquad$
B. The expression is undefined.

Answer: A. 24 $\div 3-3=$
53. Simplify.
$47+\frac{9}{3}$
Select the correct choice below and, if necessary, fill in the answer box to complete your choice.
A. $47+\frac{9}{3}=$ $\qquad$B. The expression is undefined.

Answer: A. $47+\frac{9}{3}=$ $\qquad$
54. Simplify.

$$
2 \cdot 4+4 \cdot 2
$$

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.A. $2 \cdot 4+4 \cdot 2=$B. The expression is undefined.

Answer: A. $2 \cdot 4+4 \cdot 2=$ 16
55. Simplify.

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

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.A. $(2+6) \cdot(7-4)=$ $\qquad$B. The expression is undefined.

Answer: A. $(2+6) \cdot(7-4)=$
56. Find the area and perimeter of the square shown to the right.

The area of the square is $\qquad$ (1) $\qquad$

The perimeter of the square is $\qquad$ (2) $\qquad$
(1) $\bigcirc$ meters.square meters.
(2)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 $\qquad$ (1) $\qquad$

The perimeter of the square is $\qquad$ (2) $\qquad$
(1) square miles.
(2) $\bigcirc$ miles.
miles. square miles.

Answers 1764
(1) square miles.

168
(2) miles.
58. Evaluate the expression for $z=3$.
$4+5 z$
$4+5 z=$ $\qquad$

Answer: 19
59. Evaluate the expression for $x=4$ and $z=2$.
$3 x z-2 x$
$3 x z-2 x=$ $\qquad$

Answer: 16
60. Evaluate the expression for $x=2, y=3$, and $z=4$.

$$
z-x+y
$$

The answer is $\qquad$ .

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

$$
6 x-z
$$

$6 x-z=$ $\qquad$

Answer: 7
62. Evaluate the following for $\mathrm{x}=5$ and $\mathrm{y}=4$.

$$
y^{3}-3 x
$$

The answer is $\qquad$ .

Answer: 49
63. Evaluate the following expression for $x=2, y=2$, and $z=1$.

$$
\frac{7 x y}{z}
$$

The answer is $\qquad$ .

Answer: 28
64. Evaluate the expression for $x=2$ and $y=6$.

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

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

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

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

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

Answer: 7
66. Evaluate the algebraic expression for the given value.

$$
x^{2}-3 x+4, \text { for } x=6
$$

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

Answer: 22
67. Decide whether the number is a solution of the equation.

Is 14 a solution of $n-11=3$ ?No
$\bigcirc$ Yes

Answer: Yes
68. Decide whether the number is a solution of the equation.

Is 4 a solution of $29=70 n$ ?Yes
$\bigcirc \mathrm{No}$

Answer: No
69.

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

Is 4 a solution?
$\bigcirc$ Yes
$\bigcirc$
No

Answer: No
70. Decide whether the number is a solution of the equation.

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

Answer: Yes
71. Decide whether the number is a solution of the equation.

Is 6 a solution of $3 f=24-f$ ?Yes
$\bigcirc$ No

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

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

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.
A. in the set $\{12,14,16\}$ is a solution of the equation $n-4=10$.B. 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.

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

Select the correct choice below and, if necessary, fill in the answer box to complete your choice.
$\bigcirc \mathbf{A}$. $\qquad$ in the set $\{5,9,13\}$ is a solution of the equation $4 x-5=2 x+21$.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 $4 x-5=2 x+21$.
74. You are given the following equation: $3 n+2=17$. Which of the following is a solution to the equation?

Choose the correct answer below.
A. $n=0$B. $n=17$
C. $n=5$D. $n=3$

Answer: C. $\mathrm{n}=5$
75. Simplify.
$8 \cdot 4^{2}$
$8 \cdot 4^{2}=$ $\qquad$

Answer: 128
76. Simplify.
$6+7 \cdot 4-11$
$6+7 \cdot 4-11=$ $\qquad$

Answer: 23
77. Solve. Check your solution.

$$
x+9=20
$$

The solution is $\mathrm{x}=$ $\qquad$ .

Answer: 11
78. Solve.

$$
7 x=14
$$

The solution is $\mathrm{x}=$ $\qquad$ .

Answer: 2
79. Solve the following equation.

$$
6 x-6=0
$$

$x=$ $\qquad$

Answer: 1
80. Solve the equation.

$$
5 n+25=55
$$

$\mathrm{n}=$ $\qquad$

Answer: 6
81. Write a fraction to represent the shaded region of the figure.


A fraction which represents the figure is $\qquad$ .

Answer: 3
$\overline{7}$
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 $\qquad$ .
B. The mixed number which represents the shaded area of the figure group is $\qquad$ .

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

## Answers $\frac{7}{4}$ <br> $1 \frac{3}{4}$

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


The fraction which represents the shaded region is $\qquad$ .

Answer: $\frac{11}{12}$
85. Write a fraction to represent the shaded part of the figure.


The fraction representing the shaded part is $\qquad$ .

Answer: 7
86.

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


The fraction that represents the shaded region of this figure is $\qquad$ .

Answer: 5
$\overline{9}$
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.
$\qquad$
(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.
$\qquad$
b. Write the shaded area as a mixed number.
$\qquad$

Answers 11
$\frac{1}{2}$
$5 \frac{1}{2}$
89. Write a fraction to represent the shaded part of the syringe.


The fraction represented by the shaded parts is $\qquad$ .

Answer: 3
90. Write a fraction to represent the shaded part of the distance.


The fraction that represents the shaded part is $\qquad$ .

Answer: 1
8
91.

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

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

Choose the correct answer below.A. $\square$B.
C.
D.

E. None of the above.

Answer:
C.

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.
A.

c.

B.


○.
E.

None of the above.

Answer:

93.

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

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

Choose the correct answer below.A.

B.


C
D.

E. None of the above.

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 $\qquad$ .

Answer: $\frac{29}{30}$
95. Graph the fraction on a number line.
$\frac{2}{5}$


Answer:

96. Graph the fraction on a number line.
$\frac{3}{5}$


Answer:

97. Graph the fraction on a number line.

3
$\overline{2}$


Answer:

98. Graph the fraction on a number line.


Answer:

99. Write the number 44 as a product of prime factors.
$44=$ $\qquad$
Answer: $2^{2} \boldsymbol{\bullet} 11$
100. Find the prime factorization of the following number.

92
The prime factorization of 92 is $\qquad$ .

Answer: $2^{2} \cdot 23$
101. Find the prime factorization of the following number.

9
The prime factorization of 9 is $\qquad$ .

Answer: $3^{2}$
102. Find the prime factorization of the following number.

70
The prime factorization of 70 is $\qquad$ .

Answer: 5•2•7
103. Find the prime factorization of the number 85 . Write any repeated factors using exponents.

The prime factorization is $\qquad$ .

Answer: 5•17
104.

Write the fraction in lowest terms.
$\frac{2}{8}$
$\qquad$

Answer: 1 $\frac{1}{4}$
105.

Write the fraction in lowest terms.

42
49

Answer: 6
$\frac{6}{7}$
106. Add.
$\frac{1}{5}+\frac{2}{5}$
$\frac{1}{5}+\frac{2}{5}=$ $\qquad$ (Simplify your answer. Type an integer or a fraction.)

Answer: 3 $\frac{-}{5}$
107. Add and simplify.

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

$\frac{1}{12}+\frac{7}{12}=$ $\qquad$ (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 \$ $\qquad$ .

Answer: 24
109. Add.

$$
6.3+2.1
$$

$6.3+2.1=$ $\qquad$

Answer: 8.4
110. Add the following.
$2.1+5.16$
$2.1+5.16=$ $\qquad$ (Type an integer or a decimal.)

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 $\qquad$ feet.
(Type an integer or a decimal.)

Answer: 64.45
112.

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

Which country has the greatest chocolate consumption per person?

Choose the correct answer below.Country ECountry DCountry CCountry BCountry 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.


Answers (1) Country D
26.24
(2) Country B
23.10
(3) Country E
21.83
(4) Country C
20.94
(5) Country A
19.40
114. Use the values of the coins given below. Write the value of the group of coins shown to the right. To do so, it is usually easiest to start with the coin(s) of greatest value and end with the coin(s) of least value.


The total value of the group is \$ $\qquad$ .

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 applyA. 3 nickels and 2 penniesB. 3 nickels and 6 pennies
C. 1 dime and 7 penniesD. 2 nickels and 7 penniesE. 1 dime, 2 nickels and 3 penniesF. 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 $\pi$. Then use the approximation 3.14 for $\pi$ and approximate the circumference.

a. Find the circumference of the circle in terms of $\pi$.

The exact circumference is $\qquad$ ft .
b. Find the circumference of the circle using 3.14 as an approximation for $\pi$.

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

Answers $20 \pi$
62.80
117. The pictograph shows last year's fruit production by the top fruit-producing regions. Which region produced the greatest quantity of fruit?

Annual Fruit Production in Top Producing Regions
Coastal Region
Central Region
Northern Region
Mountain Region
Southern Region
Lake Region

Which region produced the greatest quantity of fruit?A. The mountain regionB. The southern regionC. The lake regionD. The northern regionE. The central regionF. The coastal region

Answer: F. The coastal region
118. The pictograph on the right shows the number of acres devoted to wheat production in the selected states.

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

Annual wheat Acreage in Selected Top States


The number of acres of wheat planted in state $E$ is approximately $\qquad$ 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
Mountain Region
Central Region
Southern Region
Northern Region
Lake Region


## Choose the correct answer below.

A. The northern region
B. The central regionC. The lake region
D. The southern region
E. The mountain regionF. 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 $\qquad$ .
(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?


The number of wildfires in the region decreased by about $\qquad$ from 2003 to 2004.

Answer: 77,000
122. The bar graph shows the number of major storms, by month, that have made landfall in a region between 1851 and 2005. In which month did the most major storms make landfall in the region?


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

- JulySeptember
- June
Cannot be determined

Answer: September
123.

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

Choose the correct answer below.A. Own off-campus housingB. Off-campus rentalC. Parent or guardian's homeD. Campus housingE. Other arrangements

Parent or guardian's home 330
Off-campus rental 115
Campus housing 170
Other arrangements 13
Own off-campus housing 72


Answer: C. Parent or guardian's home
124.

Find the square root.
$\sqrt{4}$

Answer: 2
125.

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


The length of the third side is $\qquad$ .

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 $\qquad$ .
(Type the ratio as a simplified fraction.)

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

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 $\qquad$ 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.
A.
B.

C.



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

Answers


10
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?
$\qquad$

Answers


27
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 $\qquad$ . (Type an integer or a simplified fraction.)

Answer: $\frac{1}{2}$
131. Find the perimeter of the following figure.


Perimeter $=$ $\qquad$ (1)
(1)ftsq. ft

Answers 68
(1) ft
132. Find the perimeter of the following figure.


Perimeter $=$ $\qquad$ (1)
(1)sq. cmcm

Answers 120
(1) cm
133. Find the perimeter of the following figure.


The perimeter is $\qquad$ (1) $\qquad$
(1)

sq. in.in.

Answers 15
(1) in.
134. Find the perimeter of the figure shown to the right.


Perimeter $=$ $\qquad$ (1) $\qquad$
(1)ft .sq. ft.

Answers 103
(1) ft.
135. Find the perimeter of the regular polygon shown to the right.


Perimeter $=$ $\qquad$ (1) $\qquad$
(1)$s q y d$yd

Answers 240
(1) yd
136. Find the perimeter of the regular polygon shown to the right.

Perimeter $=$ $\qquad$ (1) $\qquad$
(1)
 sq in.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 $=$ $\qquad$ (1) $\qquad$
(1)ft .sq. ft

Answers 16
(1) ft .
138. If a playing field is 45 yards wide and 120 yards long, what is the perimeter?


Perimeter $=$ $\qquad$ (1)
(1)sq. $y d$

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 $\qquad$ (1)
(1)sq. ft.
ft .

## 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 $\qquad$ (1) $\qquad$
(1)square inches.cubic inches.inches.

Answers 64
(1) inches.
141. Find the distance around the given figure.


The distance around the figure is $\qquad$ (1) $\qquad$
(1)mi.sq mi.

Answers 39.5
(1) mi .
142. Find the distance around the regular pentagon shown to the right.


The distance around the figure is $\qquad$ (1) $\qquad$
(1)m .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 $\qquad$ $s q \mathrm{ft}$.

Answer: 126
144. Convert the measurement indicated.

48 in to feet

48 in = $\qquad$ ft

Answer: 4
145. Convert the measurement as indicated.

18 yd to feet
$18 \mathrm{yd}=$ $\qquad$ ft

Answer: 54
146. Insert <, > , or = in the space between the paired numbers to make the statement true.

8 $\qquad$

8 (1) $\qquad$ 10
(1)


Answer: (1) <
147. Use the commutative and associative properties to simplify the expression.
$(14+a)+14$
$(14+a)+14=$ $\qquad$

Answer: a + 28
148.

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

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


Answer: $(1,2)$
149.

Graph the equation.
$y=3 x+7$

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 $\qquad$ cubic centimeters. (Type an integer or a decimal.)


[^0]:    Answer: Tenisei-Angara

