Name_____ Ms. Calimano & Miss Palemine

Sixth Grade Summer Math Homework

1) In sewing, the width of a seam is the distance from the edge of the fabric to the stitches. Susannah sews a 5/8 inch seam for clothing and a ¼ inch seam for quilts. What is the difference between these seam widths, in inches?

   A) ½
   B) ⅜
   C) ¼
   D) ⅛

2) A custodian plans to repaint some classroom bookcases. She has $5\frac{1}{4}$ gallons of paint. All of the bookcases are the same size and each requires $\frac{3}{4}$ gallon of pain. How many bookcases will the custodian be able to repaint with that amount of paint?
   a) 3
   b) 4
   c) 7
   d) 15

3) A class of 23 students bought flowers for their teacher for $44.85. If they divide the cost equally, how much should each student pay?

A) $5.13

B) $2.12

C) $1.95

D) $1.60

4) The table shows the three states with the highest populations in 2004.
Which of the following is the best estimate of the difference between the populations of California and Texas?

State	Population
California	35.9 million
Texas	22.5 million
New York	19.2 million

A) 13 million
B) 17 million
C) 16 million
D) 11 million

5) A standard bowling lane is 41 ½ inches wide. The width of a bowling lane and one gutter is 50 13/16 inches. What is the width of the gutter?

A) 8 ½ in.
B) 8 5/16 in.
C) 9 5/16 in.
D) 9 6/7 in

6) Carly purchased $9\frac{1}{2}$ pints of ice cream for a party. If each guest will be served exactly $\frac{3}{5}$ pint of ice cream, what is the greatest number of guests that Carly can serve?

a) 5
b) 9
c) 15
d) 16

7) At a bus station, buses begin their routes at 6:00am. The schedule for two of the buses is based on the time intervals listed below.

- Bus A has a long route and leaves the station every 75 minutes
- Bus B has a route and leaves the station every 15 minutes

What is the next time Bus A and Bus B will leave the station at the same time?

a) 7:00am
b) 7:15am
c) 7:30am
d) 8:30am

8) The volume, *V*, of any cube with the side length, *s*, can be determined by using the formula $V = s^3$. What is the volume, in cubic centimeters, of a cube with a side length of a cube with a side length of *2.3* centimeters?

a) 5.29
b) 6.9
c) 8.027
d) 12.167

8) A charity sold 5,958 tickets for a music concert. The price of each ticket was $9.91. Which is the best estimate of the total amount of money raised from the ticket sales?

A $50,000
B $54,000
C $60,000
D $66,000

9) Machines S and T were both cleaned this week.

- Machine S is cleaned every 12 weeks.
- Machine T is cleaned every 8 weeks.

What is the fewest number of weeks that will pass before both machines are cleaned again in the same week?

A) 16
B) 24
C) 36
D) 48

10) The table below shows the elevations at which different artifacts were found during an archeological dig.

Artifact	Elevation
arrow heard	15 feet above sea level
bone	721 feet above sea level
clay bowl	sea level
necklace	462 feet above sea level
woven basket	1200 feet below sea level

a) Write the name of each artifact and the elevation at which each artifact was found using a positive integer, zero, or negative integer.

_____

_____

_____

b) Explain how you determined If an elevation required a positive integer, zero, or negative integer.

_____

_____

_____

11) The product of ½ and another factor is less than ½ .
Which could be the other factor?

A) 4/3
B) 4/2
C) 5/2
D) ¾

12) Marty lives 2/3 mile from school. Linda lives 3/4 as far from school as Marty does. How far does Linda live from school?

A) ½
B) 7/12
C) 5/7
D) 1 mile

13) Ryan is 6 feet 1 inch tall. What is Ryan's height in inches?

A) 61 inches
B) 67 inches
C) 73 inches
D) 77 inches

14) Heather lives 7/10 mile from the school and ⅖ mile from the library. How much closer does Heather live to the library than to the school?

A) 2/10 mile
B) 3/10 mile
C) 9/15 mile
D) 1 mile

15) Elena bought 6.39 pounds of apples.
What is 6.39 rounded to the nearest whole number?

A) 6
B) 6.3
C) 6.4
D) 7

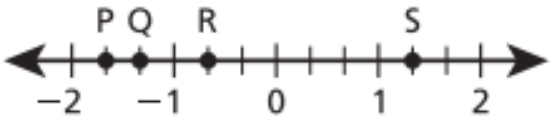
16) Mary Ann poured 250 milliliters of fruit punch into each of 13 glasses.
How many liters of fruit punch did she pour?

A) 3.25 liters
B) 32.5 liters
C) 325 liters
D) 3,250 liters

17) A rectangle has a length of ⅔ foot and a width of 3/10 foot. What is the area of the rectangle?

A) 1/5 square foot
B) 1/6 square foot
C) 11/30 square foot
D) 29/30 square foot

18) Points P, Q, R, and S are plotted on the number line shown below.



Which point represents the value of $-1\frac{1}{3}$?

a) Point P
b) Point Q
c) Point R
d) Point S

19) Lukas recorded the elevations, in feet, of four activities while on vacation. The table below shows the elevation of each activity, relative to sea level.

ACTIVITY ELEVATION

Activity	Elevation
Biking	83 ft
Diving	−122 ft
Hiking	456 ft
Swimming	−17 ft

Which activity has an elevation closest to sea level?

a) Biking
b) Diving
c) Hiking
d) Swimming

20) The lowest recorded temperatures for each of two states are listed below.

-27°F and -35°F

Write a statement using $<$, $>$, $\leq$, *or* $\geq$ to compare the recorded temperatures of the two states.

ANSWER _____