

SUMMER MATH PACKET

Welcome to the summer of **2011**, I hope everyone enjoys this summer, is safe, and rested for the fall. This year's summer packet will be smaller than those in the past. The objective of the math exercises is to help students remember what they have learned this year. It is impossible to include everything in the packet but it does represent a good portion of the math year.

There are many free internet sites that are available for your child also. If you would like additional work or suggestions please feel free to email me at school (ddakan@gsct.org).

GOD bless,

Donald Dakan & Jason Kiska

Free Math Sites	Pay for Sites
http://math.about.com/	http://www.ixl.com/
http://www.tlsbooks.com/	http://theworksheetsonline.com/
http://www.math.com/	Outstanding Tutor Site
http://www.coolmath.com/	http://www.yourteacher.com/

Incoming 7 grade Summer pack

Name _____

1. Write seven thousand, six hundred fifty-one in standard form.

2. Which of the following is a true statement?

[A] $251 > 332$

[B] $485 < 616$

[C] $680 < 508$

[D] $437 > 648$

3. Use $<$ or $>$ to complete the statement.

$83,984$ $70,203$

4. Use $<$ or $>$ to make the statement true.

1.678 1.687 1.786

5. Write nine and fifty-one hundredths in standard form.

6. Lupe is a helper in the school library. She wants to arrange the books on her cart in order from greatest to least book number. If the numbers on the books were 941.5, 942.07, 942.1, and 942.17, in what order would she arrange them?

7. Round 49.262 to the nearest ten thousand.

8. Add. Estimate to check that your answer is reasonable.
 $401 + 1,486$

9. Subtract. Add to check your answer.

$$\begin{array}{r} 7,405 \\ - 332 \\ \hline \end{array}$$

10. 429

$$\begin{array}{r} \times 9 \\ \hline \end{array}$$

11. $6 \overline{)361}$

12. $30 \overline{)390}$

13. Divide: $28.851 \div 4.89$

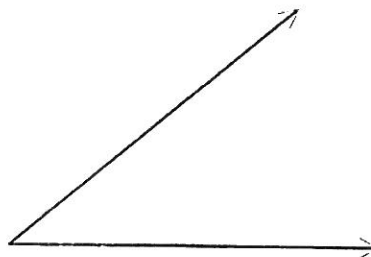
14. You are jumping in the sprinkler. Is 3°C a reasonable guess for the temperature outdoors?

15. Write the Roman numeral for 3,759.

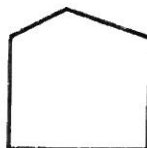
16. Write the number in standard form.

$$4,429 \times 10^6$$

17. Construct the angle bisector.



18. Does the figure tessellate? Use a drawing to support your answer.



19. Graph the triangle whose vertices have the coordinates given below. Then draw its reflection over the y -axis.
 $(-7, 3)$, $(-3, 3)$, $(-5, 7)$

20. A bag contains seven green marbles and two blue marbles. The marbles are randomly selected one at a time. What are the odds *against* picking one of the blue marbles on the first selection?

21. Use $<$ or $>$ to complete the statement.

$179,677$ $674,420$

22. Write five and six tenths in standard form.

23. What is the value of the digit 4 in the number 7,843.61?

24. Jane is a helper in the school library. She wants to arrange the books on her cart in order from least to greatest book number. If the numbers on the books were 488.7, 489.4, 489.06, and 489.46, in what order would she arrange them?

25. Jamie ran the 200-meter race in 27.07 seconds, Marietta ran it in 31.03 seconds, and Dallney ran it in 26.85 seconds. Who ran the fastest?

26. Rubber stripping for a trailer needs to be exactly 4.01 meters long. About how many of these pieces can be cut from a 25-meter length of rubber stripping? Estimate by using compatible numbers.

27. Barry orders a wallet for \$16.15, a sweater for \$20.16, and a watch for \$85.32 from a mail-order catalog. He adds \$14.33 for tax, shipping, and handling. What is the total cost of Barry's order?

28. First estimate and then find the difference.
 $247.18 - 19.9$

29. Slices of Pizza (tax included)

Size	Price
Small	\$1.49
Medium	\$2.49
Large	\$3.49
Extra Large	\$3.99

Andre has \$9. He wants to buy slices of pizza for himself, his aunt, father, and cousin. Everyone will get the same size slice. Andre thinks that the biggest size he can afford is small. Is he correct? If not, what is the biggest size Andre can afford?

30. Pork chops cost \$2.04 a pound at the market. If Mary buys 5.47 pounds, find the cost to the nearest cent.

31. Find the quotient. Identify the quotient as a terminating or repeating decimal.

$7 \div 15$

32. Find the value of the expression.

$59.2 - 3.8 > 0.83$

33. Write the next three terms and write a rule to describe the number pattern.

4,096, 1,024, 256, 64, ...

34. Write a phrase for the expression.

$25 - y$

35. Shannon and Sasha ride their bicycles every weekend. Each week they increase the distance that they ride. They rode 10.9 miles the first week, 12.2 miles the second week, and 13.5 miles the third week. If they continue to increase the distance by the same amount every week, how far will they ride the seventh week?

Solve the equation. Then check the solution.

36. $537 + d = 640$

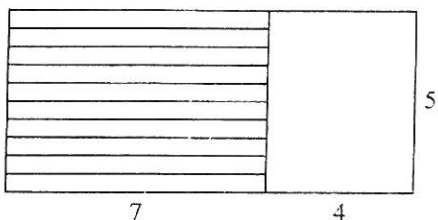
Solve the equation. Then check the solution.

37. $s \div 7 = 10$

38. Write the expression using an exponent. Name the base and the exponent.

$$3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3$$

39. Use the Distributive Property to show two ways to describe the total area.



40. List all of the following numbers that are divisible by 9.
9,775 6,885 1,445 6,647

41. Find the GCF of the set of numbers.
45, 90, 30

42. Write two fractions equivalent to the given fraction.

$$\frac{20}{38}$$

43. Jolinda scored 21 points during the basketball game. Her team scored a total of 28 points. In simplest form, what fraction of the team's points did Jolinda score?

44. Write the mixed number as an improper fraction.

$$5\frac{2}{7}$$

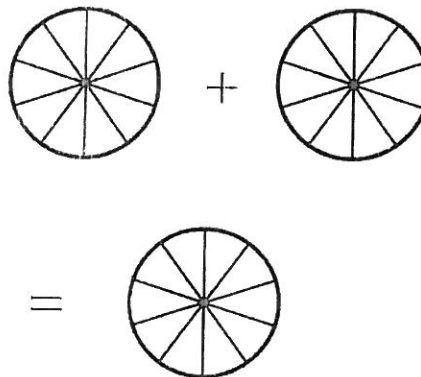
45. Compare the pair of numbers. Use $<$, $=$, or $>$.

$$23\frac{2}{11} \square 23\frac{17}{27}$$

46. Write the number as a decimal.

$$3\frac{5}{8}$$

47. Write an addition sentence for the model.



48. Find the difference.

$$\frac{23}{24} - \frac{13}{21}$$

Find the sum.

$$49. 4\frac{4}{16} + 4\frac{2}{8}$$

$$50. 6\frac{8}{9} + 2\frac{1}{2}$$

51. Find the difference.

$$\begin{array}{r} 33 \\ - 21\frac{3}{10} \\ \hline \end{array}$$

52. Elisa took 45 minutes to get dressed and eat breakfast. She listened to music and cleaned her room for 40 minutes. She then read a book for 1 hour 15 minutes and worked on a model for 25 minutes before going outside to play. If Elisa started at 6:45 A.M., what time did she go out to play?

Find the product. Simplify.

53. $\frac{7}{8} \times \frac{4}{5}$

54. $\frac{2}{3} \cdot 9$

55. Louise filled a sandbox using $3\frac{3}{4}$ bags of sand. She wants to fill another sandbox that will be $4\frac{2}{5}$ times as large as the first. How many bags of sand will Louise need?

56. Find the quotient.

$$25 \div \frac{5}{8}$$

57. A new custodian cleaned $\frac{1}{2}$ of a classroom in twelve minutes.

This was only $\frac{1}{7}$ of what an experienced custodian could do.

What part of a room could an experienced custodian clean in twelve minutes?

58. Write an equation for the problem. Then solve the equation. From nose to tail your German Shepherd is 8 feet long. You have another dog that is about $\frac{4}{5}$ of that length. How long is your second dog?

59. To measure the width of your palm, would you use inches, yards, or miles?

60. Complete the statement.

$$20\frac{1}{2} \text{ lb} = \square \text{ oz}$$

61. Find the value that makes the ratios equal.

$$\frac{14}{42} = \frac{2}{\square}$$

62. Find the unit rate for the situation.
60 pens in 4 boxes

63. A van travels 120 miles on 6 gallons of gas. How many gallons will it need to travel 420 miles?

64. A worker on an assembly line takes 9 hours to produce 22 parts. At that rate, how many parts can she produce in 18 hours?

65. Write the decimal or fraction as a percent.
0.05

66. Use a decimal to find the percent.
20% of 0.05

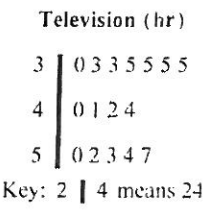
67. Find the mode of the data set.
11, 19, 16, 12, 19, 16, 11, 12, 16, 13

68. If 3 cartons of peaches cost \$14.70, how much will 7 cartons of peaches cost?

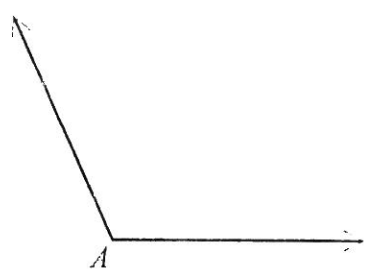
69. The numbers below represent the number of catalogs received each year by ten families. Make a line plot and find the range of the data.
41, 43, 38, 41, 40, 46, 37, 37, 46, 45

70. The stem-and-leaf plot shows the number of hours that students watched television. What is the fewest number of hours that were watched?

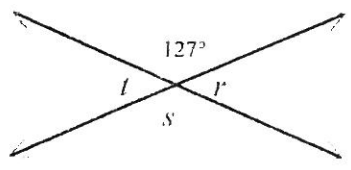
Time Spent Watching



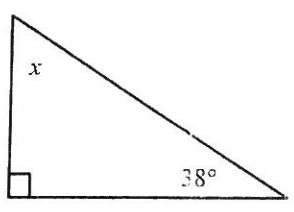
71. Classify the angle as acute, right, or obtuse, and measure it with a protractor.



72. What is the measure of $\angle S$?

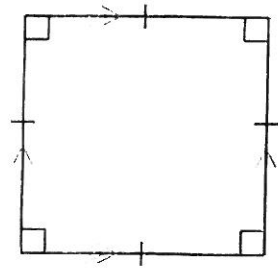


73. Find the value of x in the triangle.

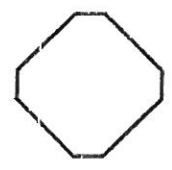


74. Draw an example of the polygon, a hexagon

75. Write all the possible names for the quadrilateral. Then give the best name.



76. If possible, draw a line of symmetry for the figure. If there is no line of symmetry, write "not possible."



77. Complete the statement.

8,900 cm = m

78. Find the area of the square given the side S or the perimeter P .

$P = 72$ feet

79. Find the area of a parallelogram with with the given dimensions.

$b = 103$ cm, $h = 2.9$ cm