

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@gcsct.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/

5th Grade entering 6th Grade**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- Which numbers are in order from least to greatest?
a. 1.742 1.558 1.671 b. 0.561 8.627
5.325 c. 4.057 4.122 5.008 d. 6.705 6.527
6.211
- Which problem can be solved with the following key facts and details?

Bob planted 10 rows of vegetables in his garden. He planted carrots, onions, potatoes, pumpkins, and beans.
a. How many rows of beans did Bob plant in his garden? b. Did Bob plant more carrots or more pumpkins in his garden? c. What is the shape of Bob's garden? d. How many different types of vegetables did Bob plant in his garden?
- A soccer coach wants to buy 10 new balls for the soccer team to use during practice. Each ball costs \$14. What is the total amount of money the coach will need to buy the balls?
a. \$104 b. \$24 c. \$140 d. \$180
- For a summer picnic, Mrs. Sanchez bought 8.32 pounds of cherries for \$2.89 per pound. Which is the most reasonable estimate for the total cost of the cherries?
a. \$16.00 b. \$18.00 c. \$24.00 d. \$11.00
- Which of the following gives the value of the expression $w \times 5$ for $w = 35$?
a. 40 b. 30 c. 175 d. 7
- A cafe serves 3 sizes of drinks. Suppose 53 people buy each size of drink every day. The owner would like to know how many paper cups she must buy every 4 weeks. Which is the most reasonable estimate?
a. 420 cups b. 600 cups c. 4,200 cups
d. 4,500 cups
- Manuel wants to organize 36 photographs in an album. He can fit 4 pictures on each page. How many pages will he need?
a. 32 pages b. 144 pages c. 40 pages d. 9 pages
- The Ramirez family just drove 256 miles in 4 hours. If they drove the same speed the whole time, how many miles did they drive each hour?
a. 61 miles b. 54 miles c. 64 miles d. 59 miles
- What will be the remainder for the quotient of 329 and 6?
a. 2 b. 5 c. 8 d. 9
- While grocery shopping, Mr. Andreis bought 9 pounds of pork chops for \$22.41. What was the price per pound of the pork chops?
a. \$2.19 b. \$2.49 c. \$2.29 d. \$2.39
- Monique earns \$15 each time she mows the neighbor's lawn. The expression $15x$ represents the amount of money Monique earns after mowing the lawn x times. Which of the following is the amount of money she would earn after mowing the lawn 14 times?
a. \$225 b. \$210 c. \$240 d. \$196
- A company makes basketballs and ships them out in cases of 12. One day they had mechanical problems and had to shut down after making 3,187 balls. How many cases would they be able to ship out at the end of that day?
a. 264 cases b. 265 cases c. 266 cases d. 267 cases
- The Western Redfooted Kestrel migrates from Eastern Europe to Southern Africa. If this type of bird flies 3,762 miles in 18 days, how many miles has the bird flown each day?
a. 29 miles b. 290 miles c. 209 miles
d. 2,900 miles

Name: _____

ID: A

14. Grilled salmon weighing 5.75 lb will be split equally into 23 servings. How much will each serving weigh?
a. 0.25 lb b. 0.202 lb c. 2.45 lb d. 0.65 lb
15. The results of a survey showed that 8 students prefer country music, 5 prefer jazz, and 16 prefer rock. What survey question would bring out this information?
a. Who is your favorite singer? b. What is your favorite song? c. What is your opinion of music? d. What is your favorite type of music?
16. Bozeman's daily high temperatures ($^{\circ}\text{F}$) for one week were 82, 87, 88, 90, 84, 84, and 80. For this data, set, which of the following is 85?
a. mean b. median c. mode d. range
17. Which data set has a mean of 6?
a. 1, 10, 6, 5, 9 b. 2, 2, 8, 4, 9 c. 6, 6, 3, 10, 4 d. 4, 7, 7, 7, 5
18. How many lines of symmetry does a rectangle have?
a. 0 b. 1 c. 2 d. 4
19. Which is the missing number in $\frac{1}{3} - \frac{?}{12} = ?$?
a. 6 b. 4 c. 5 d. 2
20. Which fraction is less than $\frac{1}{2}$?
a. $\frac{7}{16}$ b. $\frac{5}{8}$ c. $\frac{11}{20}$ d. $\frac{8}{15}$
21. Leo, Les, John, and Leroy each do a different chore for dinner. The chores are to set the table, prepare the food, wash the dishes, and mop the floor. Les sets the table, and Leo prepares the food. Leroy does not mop the floor. Who washes the dishes?
a. Leo b. Les c. John d. Leroy
22. Of the 12 girls in a class, 5 are on the swim team, 9 are on the track team, and 2 are on both teams. How many girls in the class are on the swim team but not on the track team?
a. 2 girls b. 3 girls c. 5 girls d. 7 girls
23. Olive has $\frac{2}{3}$ of an apple. She gives $\frac{1}{2}$ of what she has to a friend. What operation can you use to find how much apple Olive gives away?
a. $\frac{2}{3} - \frac{1}{2}$ b. $\frac{2}{3} + \frac{1}{2}$ c. $\frac{2}{3} \div \frac{1}{2}$ d. $\frac{2}{3} \times \frac{1}{2}$
24. Catalin left home and walked $\frac{4}{5}$ mile to her friend's house. When she arrived, she realized that she had dropped her hat along the way and had to walk back $\frac{1}{5}$ mile before she found it. When she found her hat, how far was she from her home?
a. $\frac{3}{5}$ mile b. 1 mile c. $\frac{3}{10}$ mile d. $\frac{5}{10}$ mile
25. Joe's quilt measured $74\frac{1}{4}$ inches wide, and Bian's quilt measured $68\frac{7}{8}$ inches wide. About how much wider than Bian's is Joe's quilt?
a. 4 inches b. 5 inches c. 6 inches d. 7 inches
26. At a candy store, one container of taffy weighs $\frac{2}{3}$ pound. Alisha wants to buy a container for each of her 20 classmates. Without rounding the fraction, which of the following is the best estimate of how many pounds she will buy in all?
a. 20 pounds b. 14 pounds c. 30 pounds d. 7 pounds
27. Andy wants to decrease the size of his garden to $\frac{5}{6}$ of its current size. Right now the garden is $\frac{2}{5}$ of an acre. How many acres will the garden be after he changes it?
a. $\frac{4}{9}$ acre b. $\frac{7}{11}$ acre c. $\frac{1}{3}$ acre d. $\frac{7}{30}$ acre
28. The school cafeteria uses $\frac{1}{8}$ pound of cheese on each pizza stick. How many pizza sticks can be made from 3 pounds of cheese?
a. 16 pizza sticks b. 28 pizza sticks c. 24 pizza sticks d. 8 pizza sticks

Name: _____

ID: A

29. Abigail is 54 inches tall. Which of the following is Abigail's height?
a. 4 ft 6 in. b. 4 ft 5 in. c. 5 ft 4 in.
d. 4 ft $\frac{1}{2}$ in.
30. A parallelogram has a height of 5 cm and an area of 40 cm². Which is the base of the parallelogram?
a. 8 cm b. 10 cm c. 30 cm d. 35 cm
31. A triangle has an area of 24 cm² and a base of 6 cm. Which is the height of the triangle?
a. 2 cm b. 4 cm c. 8 cm d. 12 cm
32. A square has a side length of 1 cm. A larger square has a side length of 2 cm. Which of the following statements about the squares is true?
a. The area of the smaller square is half the area of the larger square. b. The area of the larger square is four times the area of the smaller square.
c. The perimeter of the larger square is four times the perimeter of the smaller square. d. The perimeter of the smaller square is 1 cm less than the perimeter of the larger square.
33. Tyrone has four 45-minute classes each morning. How many hours of classes does Tyrone have each morning?
a. 1.5 hours b. 1.8 hours c. 3 hours d. 4 hours
34. The movie classic "The Wizard of Oz" is 103 min long. If you rent this movie and start watching it at 7:30 P.M., what time will it end?
a. 9:13 P.M. b. 9:03 P.M. c. 8:33 P.M.
d. 8:13 P.M.
35. An airline offers a flight from Bozeman to Denver that is 89 min long. The airplane arrives on time in Denver at 12:45 P.M. When was it scheduled to leave Bozeman?
a. 11:44 A.M. b. 11:56 A.M. c. 11:26 A.M.
d. 11:16 A.M.
36. The high temperature on a sunny winter day in Red Lodge, Montana was 26°F. The low temperature overnight was -6°F. What is the difference in these high and low temperatures?
a. 20°F b. 32°F c. -20°F d. -32°F
37. The freezing point of water is 32°F, or 0°C. Which of the following temperatures is higher than the freezing point of water?
a. -10°C b. -10°F c. 20°C d. 20°F
38. Which of the following is equivalent to 19 L?
a. 19,000 mL b. 1,900 mL c. 0.019 mL
d. 0.0019 mL
39. Which of the following equations has a solution of 14?
a. $x - 41 = 27$ b. $m + 8 = 6$ c. $z - 3 = 11$ d. $n + 50 = 36$

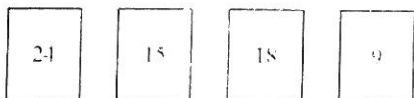
Short Answer

40. A middle school held a raffle to raise money for new percussion instruments for the orchestra. Isabel drew ticket number 292,704. Sara drew ticket number 296,491. Barbara drew ticket number 292,677, and Celia drew ticket number 293,549. Whose ticket had the largest number?
41. Megan drove 4.6 miles from her home to a friend's house. Then she drove 7.1 miles to a store. About how many miles did she drive in all?
42. Mrs. Roberts teaches a total of 53 students. Each student writes 7 papers for her class during the year. Use the Distributive Property and mental math. What is the total number of papers that will be written for Mrs. Roberts in one year?
43. A three-person committee is to be formed in the House of Representatives. The people being considered for the committee are Brown, Katz, O'Hara, Smith, and Aydin. How many different three-person committees can be formed from the five people?

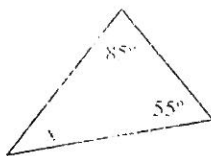
Name: _____

ID: A

44. A theatre has 56 seats in one row. If each seat is 2.88 feet wide, what is the length of the entire row of seats?
45. Bella is playing a song on the piano that is $\frac{8}{10}$ of an hour long. If she has played $\frac{9}{10}$ of the song, how long has she been playing?
46. Raul knows that the product of 30.5 and 5.9 is 179.95. What is the product of 3.05 and 5.9?
47. Isabel set up a lemonade stand in her neighborhood. The first day she sold 6 cups, the second day 12 cups, the third day 18 cups, and the fourth day 24 cups. If this pattern continues, how many cups will she sell on the fifth day?
48. What do these numbers have in common?



49. A school ordered books for all the students with perfect attendance at the end of the year. They ordered 88 books for 28 students. How many books will be left over when 88 books are divided among 28 students?
50. Lulu's class is drawing a map of the school grounds that is to a scale of 1 to 100. The actual width of the school is 22.45 meters. To find what width to draw the school on the map, the teacher gave the class the following equation. What is the width of the school on the map?
- $$22.45 \div 100 = x$$
51. What is the measure of the unknown angle?



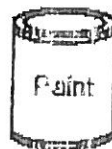
52. Summer tossed a coin many times and recorded the results on the chart below.

COIN TOSSES

Heads Up	24
Tails Up	26

For what fraction of the tosses did the coin land heads up?

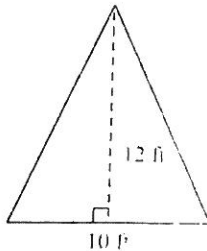
53. Larry sprinted $\frac{1}{6}$ mile, jogged $\frac{2}{6}$ mile, and then sprinted another $\frac{2}{6}$. What was his total distance?
54. Tommy needs $4\frac{5}{8}$ cups of bleach for an experiment. Tommy pours off $4\frac{1}{4}$ cups of bleach. What is a good estimate of the total amount of bleach left?
55. Amber plays tennis for $3\frac{1}{3}$ hours. Gina plays tennis for $1\frac{1}{12}$ hours. How much longer does Amber play tennis than Gina?
56. Sally read for a total of 11 hours on Friday, Saturday, and Sunday. If she read for $3\frac{2}{3}$ hours on Saturday and $2\frac{1}{6}$ hours on Sunday, how many hours did she read on Friday?
57. Greg gave \$6 to Eric, and \$3 to Pablo. Kelly paid Greg \$8 for a book. Greg now has \$33. How much money did Greg have to start?
58. Rachel is painting shelves. It takes $\frac{1}{4}$ of a can of paint to paint each shelf. ESTIMATE the number of cans needed to paint 23 shelves.



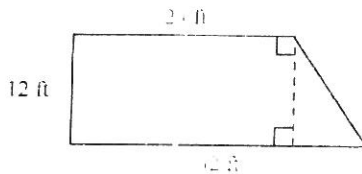
Name: _____

ID: A

59. The figure below shows the shape of Mr. Morris's new foyer. What is the area of his foyer?



60. It took Mrs. W/it, head 263 minutes to drive to Knoxville. How long did she drive in hours and minutes?
61. How can you find the area of this irregular shaped flowerbed?



62. Iniko is making a costume for a play that requires $5\frac{1}{2}$ feet of fabric for the shirt and $7\frac{1}{4}$ feet of fabric for the pants. The fabric is only sold in whole yard amounts. How many yards of fabric should Iniko buy?
63. There are 2 elephants and 3 lions at the zoo. What is the ratio of elephants to lions?
64. Manuel makes a 10-ounce salad using the following ingredients and amounts.

Ingredient	Ounces
Lettuce	1
Tomatoes	3
Carrots	3
Cucumbers	3

What percent of the salad is NOT lettuce?