June 13, 2023

Dear Bergenfield Elementary School Families:

As you head off for summer break, get ready to have some math fun! Just as teachers encourage students to continue reading throughout the summer to retain reading skills, this same attention should be given to mathematics. Regular practice over the summer with problem solving, computation, and math facts will maintain and strengthen math gains made over the school year. Attached you will find a summer math activity to help your child be prepared for school in September.

The optional summer math packet for students entering fifth grade is standards aligned. The design of the packet is for your child to have fun thinking and working collaboratively with you while communicating his/her mathematical ideas. While you are working on these activities, ask your child **how** he/she found that solution or **why** he/she chose that strategy. These activities help reinforce the concepts/skills your child learned this past year so that he/she can retain them over the summer.

If your child completes at least half of the optional packet, then they will receive a certificate in September. If your child completes the entire optional packet, then they will receive a grade of 100% for their first homework assignment of the new school year and a certificate. All completed activities must be signed by you and returned to your child's teacher by Friday, September 8, 2023.

If you have any questions or concerns, please reach out to the school principal. In addition, below is a list of helpful websites to use with your child at home to prepare them for the coming school year:

www.education.com
http://www.playkidsgames.com/games/
http://www.funbrain.com/
http://coolmath4kids.com/
http://bedtimemath.org/

www.pbs.org/parents/earlymath
www.mathplayground.com
http://www.math-play.com/
http://math-drills.com/

Best wishes for a safe, healthy, and happy summer!

13 de junio de 2023

Estimadas familias de la escuela primaria Bergenfield:

¡Cuando te vayas para las vacaciones de verano, prepárate para divertirte con las matemáticas! Así como los maestros alientan a los estudiantes a continuar leyendo durante el verano para retener las habilidades de lectura, se debe prestar la misma atención a las matemáticas. La práctica regular durante el verano con la resolución de problemas, cálculos y operaciones matemáticas mantendrá y fortalecerá las ganancias de matemáticas durante el año escolar. Adjunto encontrará una actividad de matemáticas de verano para ayudar a su hijo a estar preparado para la escuela en septiembre.

El paquete opcional de matemáticas de verano para los estudiantes que ingresan al quinto grado está alineado con los estándares. El diseño del paquete es para que su hijo se divierta pensando y trabajando en colaboración con usted mientras le comunica sus ideas matemáticas. Mientras trabaja en estas actividades, pregúntele a su hijo cómo encontró esa solución o por qué eligió esa estrategia. Estas actividades ayudan a reforzar los conceptos / habilidades que su hijo aprendió el año pasado para que pueda retenerlos durante el verano.

Si su hijo completa al menos la mitad del paquete opcional, recibirá un certificado en septiembre. Si su hijo completa el paquete opcional completo, recibirá una calificación de 100% por su primera tarea del nuevo año escolar y un certificado. Todas las actividades completadas deben ser firmadas por usted y devueltas a la maestra de su hijo antes del viernes, 8 de septiembre de 2023.

Si tiene alguna pregunta o inquietud, comuníquese con el director de la escuela. Además, a continuación hay una lista de sitios web útiles para usar con su hijo en el hogar para prepararlos para el próximo año escolar:

www.education.com
http://www.playkidsgames.com/games/
http://www.funbrain.com/
http://coolmath4kids.com/
http://bedtimemath.org/

www.pbs.org/parents/earlymath
www.mathplayground.com
http://www.math-play.com/
http://math-drills.com/

Mis mejores deseos para un verano seguro, saludable y feliz!

Summer Math Packet for Students Entering Grade 5 in the fall of 2023

Student's Name _____

Welcome to 5th Grade Mathematics! Since you will be taking 5th Grade Mathematics after successfully completing 4th Grade Mathematics, the 5th GRADE PREPARATION PACKET contains review material of the 4th grade concepts, skills, and procedures that should be mastered BEFORE entering 5th grade in the fall. Essentially, this packet provides a review of the major 4th grade topics.

A note about Math Facts: Math Fluency is a necessary component of the grade 5 curriculum. Therefore, upon entering 5th grade, students need to be expertly skilled in their basic multiplication, addition, and subtraction facts. For example: 5x6=30; 9x8=72; 12x11= 121. Students will be responsible for multiplication facts from 0x0 to 12x12. This collection of problems will identify those concepts that you have mastered as well as those you will need to practice and review.

SOLVE THESE PROBLEMS WITHOUT THE USE OF A CALCULATOR AND SHOW ALL WORK

The problems here are very representative of the types of items you will need to have mastered BEFORE 5th Grade Math...so we strongly encourage you to include this packet in your summer festivities! Good luck and enjoy!

¡Bienvenidos a Matemáticas de quinto grado! Dado que tomará Matemáticas de quinto grado después de completar con éxito Matemáticas de cuarto grado, el PAQUETE DE PREPARACIÓN DE QUINTO GRADO contiene material de repaso de los conceptos, habilidades y procedimientos de cuarto grado que deben dominarse ANTES de ingresar al quinto grado en el otoño. Básicamente, este paquete proporciona una revisión de los principales temas de 4º grado.

Una nota sobre los hechos matemáticos: la fluidez matemática es un componente necesario del plan de estudios de quinto grado. Por lo tanto, al ingresar al quinto grado, los estudiantes deben ser expertos en las operaciones básicas de multiplicación, suma y resta. Por ejemplo: 5x6 = 30; 9x8 = 72; 12x11 = 121. Los estudiantes serán responsables de las tablas de multiplicar del 0x0 al 12x12. Esta colección de problemas identificará los conceptos que ha dominado, así como los que necesitará practicar y repasar.

***Resuelva estos problemas sin el uso de una calculadora y muestre todo el trabajo.

Los problemas aquí son muy representativos de los tipos de elementos que necesitará dominar ANTES de matemáticas de quinto grado… ¡así que le recomendamos encarecidamente que incluya este paquete en sus festividades de verano! ¡Buena suerte y disfruta!

I. Numbers & Operations in Base Ten

1. Write the given number in expanded form: 12,695

2. Round the given number to the place value of the underlined digit: 123,8̲75

3. If the following number were increased by six hundred, what would the new number be?   7,196

4. Compare the following numbers using ⟨, ⟩, =
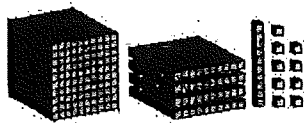
2,328 _____ 2,238

5. a. Find the sum:

$45654 + 32879$

b. Find the difference:

$45654 - 32879$

6. What is the value of the given model: _____

7. a. Find the sum:

$3078 + 2398$

b. Find the difference:

$3078 - 2398$

8. Write the number "six hundred three" in standard form: _____

9. Three friends got together to sell beverages.
   Akash sold 13 cups of lemonade.
   Harleen sold 18 cups of iced tea.
   Shamika sold 24 cups of apple juice.
   How many drinks did they sell together?

10. Write the following statement as a multiplication equation:
    35 is 5 times as many as 7.

II. Operations & Algebraic Thinking

11. List all of the factors of 60.

12. A school district had four elementary schools to start the year. North Elementary School had 1,175 students; East Elementary School had 1,580 students; West Elementary School had 1,435 students; and South Elementary School had 1,810 students.

However, they thought their elementary schools were too crowded, so they built another elementary school halfway through the year. They divided the students so that each of the 5 schools had the same amount of students. How many students did each school have after the new school was built?

13. Anthony is buying a black shirt and a blue jacket. The cost of the blue jacket is 3 times as much as the black shirt. If the black shirt costs $12, how much does the blue jacket cost?

14. Find the product of 3,541 and 26.

15. Divide. Check your answer.

$$7 \overline{)173}$$

16. Which list contains all prime numbers?

a. 19, 28, 29
b. 11, 19, 30
c. 11, 19, 29
d. 11, 15, 29

17. What is the product of 34 X 447?

18. There are 72 candles in 8 drawers. Each drawer has the same number of candles. Which number sentence shows how many candles are in each drawer?

|------------72 candles------------|

| ? | ? | ? | ? | ? | ? | ? | ? |

↑

Candles per drawer

19. What is the best estimate of the product of 9 × 78?

a. About 600
b. About 630
c. About 720
d. About 800

20. Which number completes the table?

n	153	126	99	57
n ÷ 9	17	?	11	3

21. There were 26 computers in the computer lab. If c represents the number of computers that were removed from the lab, which expression represents the number of computers that remain in the computer lab?

a. $26 - c$ b. $26 + c$ c. $26 \cdot c$ d. $26 \div c$

22. Danny had $216. After paying for a new CD player, he had $216 − x, where x equals the amount he paid for the CD player. If x is $38, how much money did Danny have after he paid for the CD player?

23. A newborn manatee weighs 65 pounds. The mother manatee weighs 17 times as much. How much does the mother manatee weigh?

24. $2,608 \div 4 =$

25. A DVD cabinet has 7 shelves. Each shelf can hold about 38 DVDs. What is a reasonable estimate of the number of DVDs the cabinet can hold?

A. 210 because 7 x 38 is about 7 x 30 = 210

B. 280 because 7 x 38 is about 7 x 40 = 280

C. 320 because 7 x 38 is about 8 x 40 = 320

D. 350 because 7 x 38 is about 7 x 50 = 350

26. Complete the table.

Then express the pattern in a number sentence.

INPUT	OUTPUT
1	3
2	6
3	
	12
5	

III. Numbers & Operations: Fractions

27. Find the common denominator of these numbers: $\boxed{\dfrac{1}{5} \text{ and } \dfrac{3}{4}}$

28. Solve: $\boxed{5\frac{1}{4} + 6\frac{3}{4} =}$

29. Solve: $\boxed{3\frac{3}{7} - 1\frac{1}{7} =}$

30. Solve: $\boxed{5 \times \frac{1}{4} =}$

31. In a relay race, each runner runs ½ of a lap. If there are 4 team members running, then how long is the race? Show your reasoning with words and/or a model.

32. You are following the recipe for Chocolate-Oatmeal Drop Cookies.

2 ¾ cups flour
2 ½ teaspoons baking powder
½ teaspoon salt
½ cup margarine
1 ¾ cups sugar
1 ½ teaspoons vanilla
2 eggs
1 ¼ cups milk
2 cups quick oatmeal
1 ounce cocoa

In the kitchen you have the following amount of each ingredient:

Flour: 8 cups
Baking Powder: 20 teaspoons
Salt: 12 teaspoons
Margarine: 5 cups
Sugar: 8 cups
Vanilla: 10 teaspoons
Eggs: 1 dozen
Milk: 4 cups
Oatmeal: 8 cups
Cocoa: 8 ounces

Determine how much of each ingredient you would have left over after you complete the recipe for the cookies.

Flour: _____
Baking Powder: _____
Salt: _____
Margarine: _____
Sugar: _____
Vanilla: _____
Eggs: _____
Milk: _____
Oatmeal: _____
Cocoa: _____

33. Write the following decimals as fractions:

a. 0.3

b. 1.5

c. 0.62

d. 4.55

34. Ron says 0.18 is greater than 0.5. Nick says Ron is wrong. Who is right? Justify your answer with written explanation.

IV. Measurement & Data

35. How many inches are in 6 feet?

36. How many millimeters are in 3 centimeters?

37. A rectangular garden has an area of 80 square feet. It is 5 feet wide.

a. How long is the garden?

b. What is the perimeter of the garden?

38. Gina decides to figure out how long her class spends actually studying and learning in one day. She arrives at school at 8:30 a.m. The class goes to recess from 9:30 a.m. to 9:45 a.m., and then works in literature circles and writing until 11:30 a.m., when the class goes to lunch. Students are at lunch for 40 minutes. After they return to class, they work on math until their ten-minute afternoon break at 1:30 p.m. After break, they work on science and social studies until school dismisses at 3:10 p.m. How much time are the students in school? How much time are they learning and studying? Give your answer in hours and minutes.

39. Mr. North spent $144.00 to build a fence around the perimeter of his vegetable garden. He paid $6.00 per yard for fencing.
    a. Draw two possible plans for Mr. North's vegetable garden. Include the measurements for area and perimeter.
    b. Explain the steps you took to solve this problem.
    c. Which plan do you think is the best design? Why?

40. Chris and Kevin have an insect collection. They have measured the lengths of all their insects. Their data show that 4 insects are 1/8 inch long, 6 are 1/4 inch long, 8 are 1/2 inch long, 2 are 1/6 inch long, 1 is 1/12 inch long, and 5 are 1/3 inch long.

a. Create a line plot that shows the data.

b. How much longer is the longest insect from the shortest insect?

V. Geometry

41. A right angle is an angle that measures how many degrees?

42. Which of the lines is a line of symmetry for the star below?
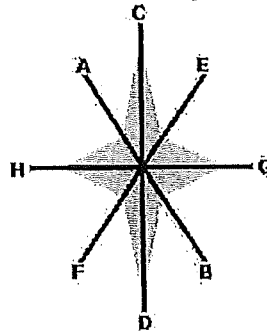
a. CD only   b. AB and EF   c. CD and GH   d. AB only

43. What is the name of a polygon with 5 vertices?
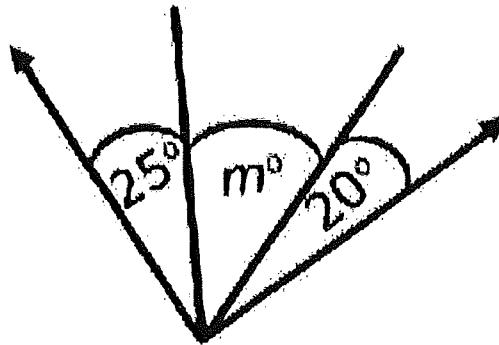
44. Draw an angle that is

I. Obtuse   II. Right   III. Acute

45. Ella and Molly's teacher told them that the two outside rays in this drawing are perpendicular. She asked them to find the missing angle measure. What is it?
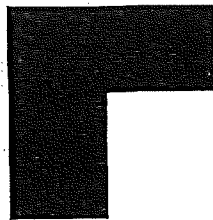

46. How many pairs of perpendicular line segments make up the figure below?
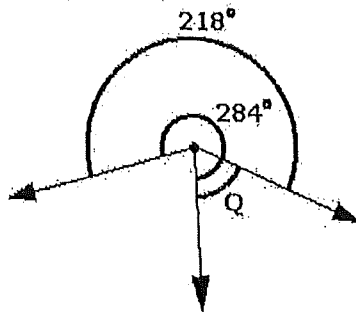
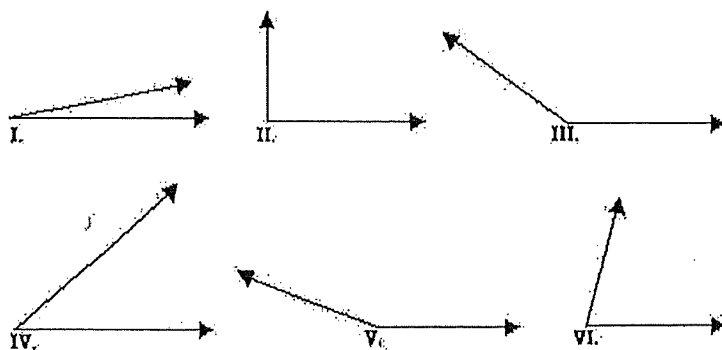A. 6   B. 3   C. 5   D. 12

47. Which of the following is a 4-sided shape whose opposite sides are parallel?

A. cube   B. triangle   C. parallelogram   D. circle

48. What is the measure of ∠Q below?

49. Which angle below appears to be a right angle?

50. Which figure has **exactly** two lines of symmetry?

P.   Q.   R.   S.