Summer Math Reinforcement Packet

Students Entering into 5th Grade

Dear Parents and Students,

Our fourth graders had a busy year learning new math skills. Mastery of all these skills is extremely important in order to develop a solid math foundation. The fifth grade math program will add onto these fourth grade skills, so any time spent learning or reinforcing these concepts will be very beneficial for your child. Each year builds upon the previous year's skills in math. Any areas your child has difficulty, you may want to give them additional practice. Student mastery of the basic math skills is as important to success in future mathematical procedures and reasoning as learning the alphabet is to reading and writing.

Have your child complete at least one page (one side), three times a week of the math packet. Please return this completed packet in September to your fifth grade teacher. Remember this packet will be your first Math grade of the school year, so make sure you do your best and complete it with effort!

In addition, after you have completed the math problems and you feel you need more practice on a certain concept, you can visit some of the web sites listed on the next page. You can also make up problems of your own for additional practice.

If you have any questions, need anything, or just want to say hi you can email me over the summer Enuez@steliznyc.org or classdojo.

Enjoy your summer!!

Reminder - Practicing multiplication (up to 12) facts are VERY important!

Best,

Mrs. Nuez

Excellent websites for fun learning and reinforcement of math skills:

www.multiplication.com

www.khanacademy.org

www.spalshmath.com

www.coolmath-games.com/

www.wildmath.com Select "Play the game". Select addition, subtraction or multiplication and grade. You can race to beat your time.

www.harcourtschool.com Click the red box, select math, select HSPMath, select New York, click on the "4" ball or "5" ball for a challenge. Select a game.

www.aplusmath.com Go under "Flashcards" or "Game Room" on the left side of the screen. You can practice adding, subtracting and multiplying. Very important to know the addition, subtraction and multiplication facts from memorization or within a couple seconds.

www.mathisfun.com Select numbers then Math Trainer for adding, subtracting and multiplication. Or at the home screen select games and pick a game to play.

www.eduplace.com Select your state – "New York" press submit. Select the student tab then click on the "mathematics" rectangle. Click in the center book "Houghton Mifflin Math 2007", Click on "Grade 4". Select any games. Extra Help and Extra Practice is good, also eGames.

www.illuminations.nctm.org Select activities then select grade level. Click on Search.

www.aaamath.com At the top pick "Fourth" or "Fifth" for a challenge. Choose any of the activities like multiplication then select "play" option toward the top of the screen. 20 Questions and Countdown games are good ones.

www.funbrain.com Lots of fun games to choose from.

Other games and activities you can play:

• Take a deck of cards and remove the face cards (kings, queens, jacks). Aces are one. Divide the cards evenly among 2 players. Each player flips over a card. The first one to add the 2 numbers correctly the fastest wins the cards. After going through the pile of cards, the player with the most cards wins. You can do a multiplication version also.

Place Value

Solve each problem

1 6,382 The value of an eight worth 100 times the value of the eight in the number above.	2 5,000 ÷ 500 =	3 80 tens =	4 1,758 The value of an eight worth 10 times the value of the eight in the number above.
5 50,000 ÷ 50 =	6 800 ÷ 100 =	7 Write as a base-ten numeral: *Forty thousand, fifty-two*	8 Write as a base-ten numeral: 4 × 100,000 + 5 × 1,000 + 2 × 1
9 Write as a base-ten numeral: *Four hundred thousand, five hundred twenty*	10 Write as a base-ten numeral: 40,000 + 500 + 20	11 Write as a base-ten numeral: *Forty-five thousand, two hundred*	12 Write as a base-ten numeral: 4 × 10,000 + 5 × 1,000 + 2 × 10
13 Compare the numbers below using <, >, or =: 92,932 ____ 92,923	14 Compare the numbers below using <, >, or =: 530 ____ 5 × 100 + 3 × 10	15 Compare the numbers below using <, >, or =: 99,887 ____ 121,561	16 Which of the following numbers has the greatest value? 4,502 4,052 4,520
17 Round to the closest ten thousand: 445,021	18 Round to the closest hundred: 451,889	19 Round to the closest hundred: 451,985	20 Round to the closest ten: 452,024

Multiplication

Solve each problem. Show your work.

1 $2{,}093 \times 3$	2 83×26	3 56×49

Division

Solve each problem. Show your work.

1 $8\overline{)1{,}400}$	2 $5\overline{)915}$	3 $9\overline{)2{,}160}$

Fractions

Solve each problem. Show your work.

1 List fractions equivalent to $\frac{1}{4}$ from picture:

2 List fractions equivalent to $\frac{2}{5}$ from picture:

3 Color all fractions equivalent to $\frac{1}{3}$ from picture:

4 $\frac{14}{21} = \frac{\square}{3}$

5 $\frac{5}{15} = \frac{\square}{45}$

6 $\frac{9}{12} = \frac{3}{\square}$

7 Which fraction is less than ½?

a. $\frac{2}{4}$ b. $\frac{1}{3}$

c. $\frac{2}{3}$ d. $\frac{6}{12}$

8 Which fraction is more than ½?

a. $\frac{4}{8}$ b. $\frac{2}{6}$

c. $\frac{4}{9}$ d. $\frac{6}{11}$

9 Which fraction is equal to ½?

a. $\frac{4}{7}$ b. $\frac{8}{12}$

c. $\frac{3}{6}$ d. $\frac{6}{14}$

10 Compare the fractions below using <, >, or =:

$\frac{11}{12} \bigcirc \frac{5}{6}$

11 Compare the fractions below using <, >, or =:

$\frac{8}{12} \bigcirc \frac{4}{6}$

12 Compare the fractions below using <, >, or =:

$\frac{2}{3} \bigcirc \frac{7}{9}$

Fractions Operations

Solve each problem. Show your work.

1. $\frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} =$

2. $\frac{3}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} =$

3. $\frac{6}{7} - \frac{1}{7} =$

4. $2\frac{2}{5} - 1\frac{3}{5} =$

5. $1\frac{4}{5} + 1\frac{2}{5} =$

6. $2 \times \frac{3}{5} =$

7. $3 \times \frac{4}{5} =$

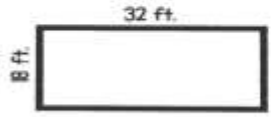
8. There are $3\frac{1}{2}$ cheese pizzas and $1\frac{1}{2}$ pepperoni pizzas. How much total pizza is there?

9. Justin, Hailey, and Tonya are eating a pan of brownies. Justin ate $\frac{2}{10}$ of it, Hailey ate $\frac{3}{10}$ of it, and Tonya ate $\frac{1}{10}$ of it. How much of the pan of brownies are left?

Area

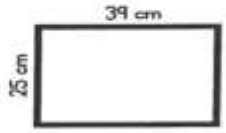
Solve each problem. Show your work.

1. Find the area:



A= _____ sq. ft.

2. Find the area:



A= _____ sq. cm

Decimals & Fractions

Solve each problem.

1. Fill in the blank to make the equation true.

$$\frac{3}{10} = \frac{\square}{100}$$

2. Fill in the blank to make the equation true.

$$\frac{\square}{10} = \frac{70}{100}$$

3. Fill in the blank to make the equation true.

$$\frac{5}{10} + \frac{3}{100} = \frac{\square}{100}$$

4. Fill in the blank to make the equation true.

$$\frac{6}{100} + \frac{7}{10} = \frac{\square}{100}$$

5. Fill in the blank to make the equation true.

$$\frac{6}{10} + \frac{7}{100} = \frac{\square}{100}$$

6. Fill in the blank to make the equation true.

$$\frac{5}{100} + \frac{3}{10} = \frac{\square}{100}$$

7. Write as a decimal.

$$\frac{82}{100} =$$

8. Fill in the blank to make the equation true.

$$.03 = \frac{\square}{100}$$

9. Write as a decimal.

$$\frac{8}{100} + \frac{2}{10} =$$

10. What decimal is located at the point on the line?

11. What decimal is located at the point on the line?

12. Fill in the blank to make the equation true.

$$.7 = \frac{\square}{100}$$

13. Compare the decimals below using <, >, or =:

.4 ◯ .19

14. Compare the decimals below using <, >, or =:

.09 ◯ .1

15. Compare the decimals below using <, >, or =:

.2 ◯ .20

Geometry

Read the following definitions. Draw an example of the geometry term in each box.

1 An angle less than 90 degrees	2 An angle equal to 90 degrees	3 An angle greater than 90 degrees
4 Lines that intersect at a 90 degree angle	5 Lines that are the same distance apart and never intersect	6 A triangle with a 90 degree angle
7 A triangle with an angle greater than 90 degrees	8 A triangle in which all three angles are less than 90 degrees	9 A quadrilateral with 4 equal sides and 4 right angles
10 A quadrilateral with 2 sets of parallel sides	11 A quadrilateral with 4 right angles and opposite sides congruent	12 A quadrilateral with one set of parallel sides

4 × 10	12 × 5	10 × 3	1 × 12	7 × 11	6 × 7	3 × 8	11 × 11	9 × 10	2 × 8
1 × 6	8 × 11	6 × 3	7 × 5	2 × 3	5 × 3	5 × 10	7 × 2	8 × 9	9 × 4
6 × 10	5 × 11	9 × 11	7 × 12	6 × 12	2 × 4	9 × 8	6 × 6	9 × 12	11 × 6
5 × 10	7 × 11	9 × 12	10 × 6	5 × 6	12 × 12	1 × 12	9 × 11	10 × 12	1 × 2
8 × 11	4 × 1	11 × 11	9 × 2	7 × 11	4 × 8	1 × 10	7 × 10	9 × 11	8 × 4
2 × 2	7 × 1	5 × 7	10 × 6	2 × 12	12 × 3	12 × 11	2 × 11	11 × 7	6 × 4
7 × 12	1 × 9	9 × 6	3 × 11	9 × 11	6 × 2	4 × 11	10 × 11	4 × 10	5 × 3
10 × 4	11 × 6	8 × 10	2 × 8	10 × 9	8 × 3	5 × 3	7 × 11	1 × 11	6 × 5
4 × 11	9 × 5	2 × 12	8 × 11	12 × 12	11 × 7	3 × 3	11 × 12	5 × 12	9 × 11