Summer Math Reinforcement Packet
Students Entering into 5th Grade

Dear Parents,

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 to your child. Each year builds upon the previous year's skills in math. 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.

While summer is a time to relax from the rigors of school, it is important to review and practice the math concepts from the previous year. Have your child complete one page (one side), three times a week of the math packet. Your child will receive a reward for completing the packet, but the biggest reward of all will be being ready for fifth grade! Please return this completed packet in August to your fifth grade teacher.

<u>Here are some suggested websites for learning and reinforcement of math skills:</u>

www. ixl.com/math; www.harcourtschool.com; www.aplusmath.com; www.eduplace.com; www.khanacademy.com; www.mathgames.com

<u>Other games and activities you can play:</u>

Computation Practice using a Deck of Cards: 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.

Figuro Math Card Games www.etacuisenaire.com

Kanoodle – a caboodle of brain-teasing puzzles www.educationalinsights.com

24 Game – comes in all levels www.24game.com

Set – www.setgame.com

Thank you for assisting us in educating your children. If you have any questions or concerns, please feel free to contact me.

Have a wonderful summer,

Rabbi Kalman Baumann

Principal

Mrs. Jodi Tuchinsky

Math Department Head

Entering 5th Grade Summer Math Packet

First Name: _____ Last Name: _____

5th Grade Teacher: _____

I have checked the work completed:_____

Parent Signature

Select the one best answer for each question. **DO NOT** use a calculator in completing this packet.

1. Which of the following sets of numbers are **all** of the factors of 24?

    A. 1, 3, 8, 24
    B. 2, 4, 6, 8, 12, 24
    C. 2, 3, 4, 6, 8, 12
    D. 1, 2, 3, 4, 6, 8, 12, 24

2. Which of the following numbers is a multiple of 8?

    A. 18
    B. 28
    C. 44
    D. 56

3. The following are all multiples of a one-digit number: 12, 24, 30, 42.

    A. 5
    B. 6
    C. 7
    D. 8

4. Which number is a multiple of 3?

    A. 83
    B. 84
    C. 85
    D. 86

5. Which of the following set of numbers are all multiples of 7?

    A. 35, 47, 52
    B. 35, 36, 37
    C. 35, 42, 49
    D. 37, 47, 57

12. Write the products: Practice any you do not know quickly.

4	8	11	2	2	7	10	12	6	5	9	5	0
x2	x4	x2	x5	x3	x5	x3	x4	x3	x4	x4	x3	x2

3	9	2	5	7	10	6	5	11	1	4	8	11
x3	x5	x7	x5	x4	x4	x4	x2	x5	x3	x5	x2	x4

6	8	6	3	9	10	12	3	7	4	9	4	12
x5	x4	x2	x4	x3	x2	x3	x5	x3	x4	x2	x3	x2

9	7	5	2	6	7	3	4	5	8	3	11	5
x8	x6	x10	x7	x9	x7	x8	x6	x9	x7	x9	x7	x7

9	2	6	4	5	6	4	8	10	3	7	4	7
x6	x9	x7	x11	x6	x8	x9	x8	x8	x6	x8	x7	x9

2	3	9	8	2	3	9	7	0	2	5	4	6
x6	x12	x9	x6	x8	x6	x7	x8	x9	x12	x8	x9	x6

13. Since 5 x 20 = 100, which number will complete the number sentence below to make it true?

   5 x _____ x 5 = 100

   A. 4
   B. 5
   C. 20
   D. 25

14. Solve 136 – 67.

   A. 61
   B. 69
   C. 71
   D. 79

22. What is the value of this expression? $420 \div 4$

    A. 15
    B. 100
    C. 105
    D. 150

23. There are 168 lunches to be shared equally among 3 fourth-grade classes. How many lunches will go to each class?

    A. 56
    B. 165
    C. 171
    D. 504

24. What is the value of this expression? $3750 \div 10$

    A. 370
    B. 375
    C. 3740
    D. 37500

25. Which division problem is correct? Show your work.

    A. $4,836 \div 6 = 86$
    B. $4,836 \div 6 = 806$
    C. $3,215 \div 5 = 641$
    D. $3,215 \div 5 = 603$

26. If $600 \div A = 300$, what is A?

    A. 200
    B. 30
    C. 20
    D. 2

27. Fill in the blank with the number that makes this math sentence correct:

    $12 \times \underline{\hspace{1cm}} = 60$

    A. 7
    B. 4
    C. 6
    D. 5

34. Suppose 33 photos are placed in a photo album. How many pages are needed if 3 photos fit on a page? Show your work.

    A. 9 pages
    B. 10 pages
    C. 11 pages
    D. 12 pages

35. Which answer means the same as $12.49?

    A. One and two forty nines
    B. Twelve and forty nine
    C. Twelve and forty nine tens
    D. Twelve and forty nine hundredths

36. Mr. Clark was given some change at the grocery store. He was given 5 one dollar bills, 6 quarters, 2 dimes and a penny. How much change did he get?

    A. $5.62
    B. $6.71
    C. $56.21
    D. $6.21

37. What decimal part of one dollar is the sum of these coins?

    A. 2.00
    B. 0.20
    C. 0.02
    D. 0.22

38. What is another way to write 0.7 inches?

    A. 7/10000 inches
    B. 7/1000 inches
    C. 7/100 inches
    D. 7/10 inches

39. Which is equal to 0.45?

A. $\dfrac{4}{5}$

B. $\dfrac{45}{100}$

C. $\dfrac{100}{45}$

D. $\dfrac{5}{100}$

46. Which number is the same as .5?

    A. One half
    B. 5/1
    C. Five hundredths
    D. 5/1000

47. How is eighteen hundredths written in standard form?
    A. 0.018
    B. 0.18
    C. 18.00
    D. 1800

48. Solve each of these without using a calculator:

|		
$4 \times 6 =$ _____	$8 \times 8 =$ _____	$6 \times 6 =$ _____
$2 \times 9 =$ _____	$5 \times 5 =$ _____	$9 \times 6 =$ _____
$8 \times 5 =$ _____	$2 \times 2 =$ _____	$3 \times 4 =$ _____
$32 \div 4 =$ _____	$7 \times 7 =$ _____	$56 \div 7 =$ _____
$72 \div 9 =$ _____	$18 \div 2 =$ _____	$3 \times 8 =$ _____
$45 \div 9 =$ _____	$4 \times 4 =$ _____	$8 \times 7 =$ _____
$24 \div 3 =$ _____	$3 \times 3 =$ _____	$3 \times 8 =$ _____

49. Choose the circled group that represents 1/3.
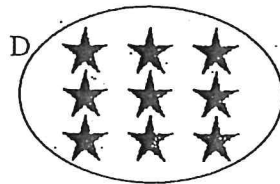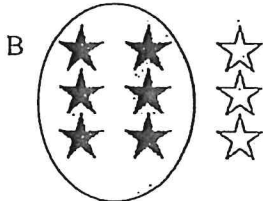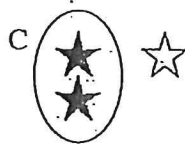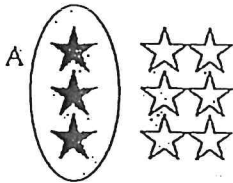
    A. A
    B. B
    C. C
    D. D

53. Which number line shows these two fractions?

$$\frac{5}{2} \quad 2\frac{1}{4}$$
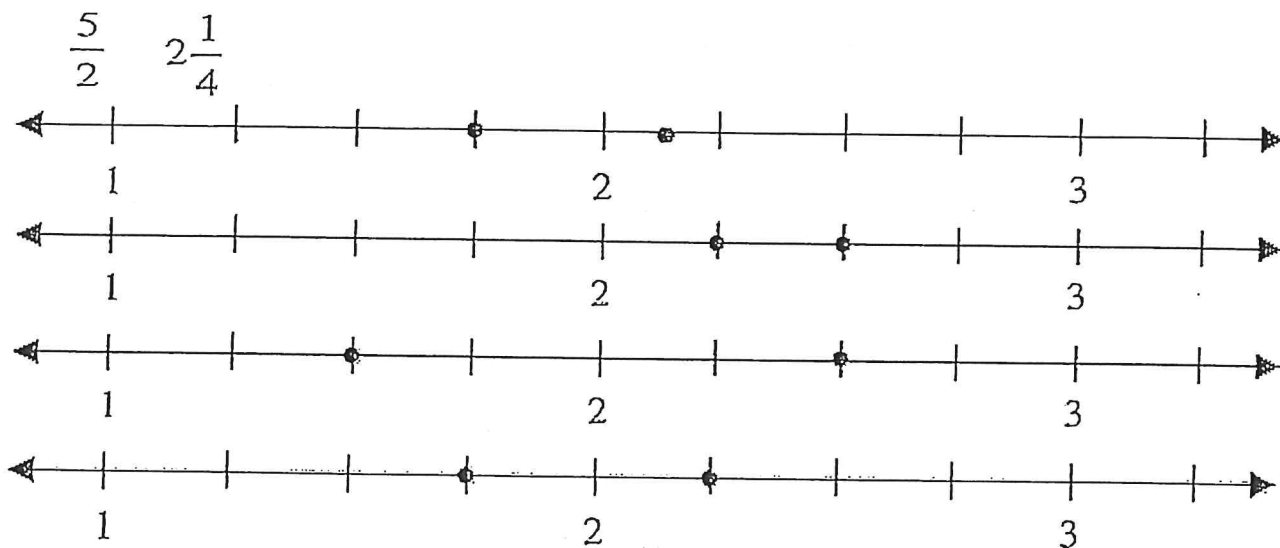

54. Which of the following best represents the location of the X on the number line below?

A. 1 ¼
B. 1 ½
C. 1 ¾
D. 2 ¼
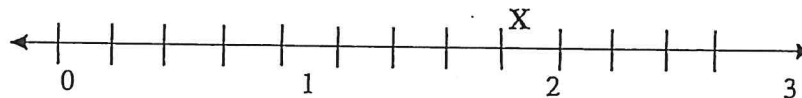
55. How many twelfths equal 5/6?

A. 10/12
B. 11/12
C. 6/12
D. 5/12

56. How many eighths equal ¼?

A. 1/8
B. 2/8
C. 4/8
D. 7/8

57. Which number is an improper fraction?
A. 11/12
B. 5/8
C. 8/5
D. 6/7

63. The distance from home to school is 7/8 of a mile for Amy and 4/8 of a mile from Tom. How much farther does Amy walk than Tom?

    A. 11/8
    B. 11/16
    C. 3/16
    D. 3/8

64. Sonya needs ½ teaspoon of salt for her recipe to make rolls. She needs ¼ teaspoon of salt for her recipe to make biscuits. How much salt will she need to make both recipes?

    A. 2/6 tsp.
    B. 3/4 tsp.
    C. 1/8 tsp.
    D. 1/6 tsp.

65. Solve for the unknown in this equation: $2/4 + n = 3/4$ $n = $ _____

    A. 5/4
    B. 1/2
    C. 1/4
    D. 5/8

66. How much is $1.35 \div 5$? Do not use a calculator!

    A. .27
    B. .35
    C. .5
    D. 1.7

67. How much is $1.14 \div 2$? Do not use a calculator. (Line up and move decimal straight up into answer)
    A. .7
    B. .52
    C. .57
    D. 1.7

68. Which of the following is closest to the sum of 811 and 356? No calculator☺.

    A. 1400
    B. 1300
    C. 1200
    D. 1100

69. Which of the following is closest to the product of 81 and 82? Do not use a calculator.

    A. 6400
    B. 7200
    C. 720
    D. 64,000

75. What is the length of this light bulb to the nearest inch?
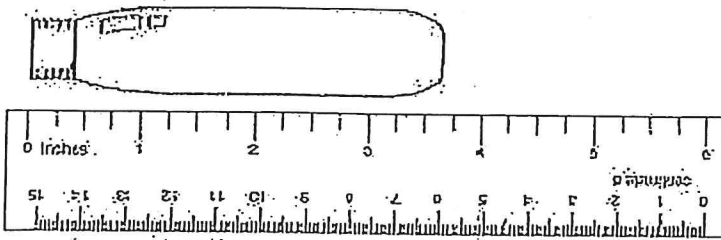
A. 2 in.
B. 3 in.
C. 4 in.
D. 5 in.

76. What is the best estimate of the area, in square centimeters, of the SHADED FIGURE on the grid below? One square equals one square centimeter.
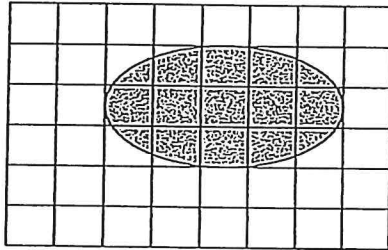
A. 5 square centimeters
B. 11 square centimeters
C. 13 square centimeters
D. 15 square centimeters

77. Which is most likely the length of a telephone book?

A. 30 kilometers
B. 30 centimeters
C. 30 millimeters
D. 30 meters

78. Brent is making a sail for a toy boat. The sail needs to be 3.55 cm wide. Which measure would be MOST useful in making the sail?

A. To the nearest millimeter
B. To the nearest decimeter
C. To the nearest meter
D. To the nearest kilometer

82. Sheryl may want to buy new carpeting for her room. She needs the square footage of the room to take to the store to price how much carpeting would be. What is the area of her room in the picture above? (multiply the length X width)

    A. 22 square feet
    B. 120 square feet
    C. 100 square feet
    D. 144 square feet

83. Using the formula for finding the area, what is the area of the figure below?

Figure A

1 cm
2 cm
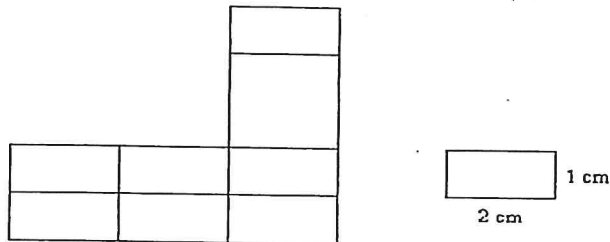
    A. 18 sq. cm.
    B. 22 sq. cm.
    C. 32 sq. cm.
    D. 54 sq. cm.

84. Find the perimeter of the figure below?

6 feet

4 feet

4 feet

2 ft.
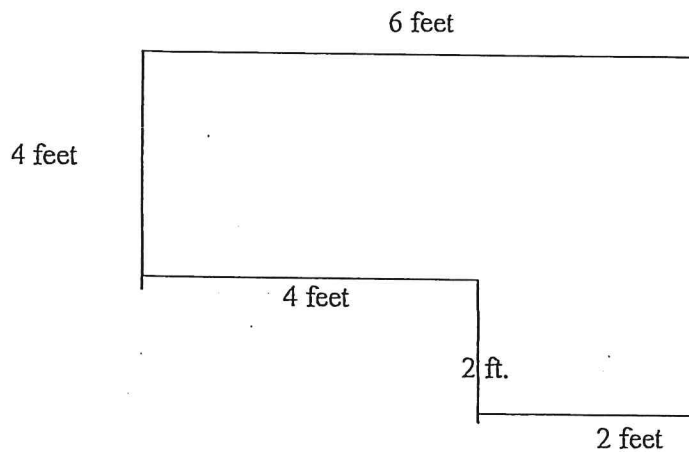
2 feet

    A. 12 feet
   B. 18 feet
    C. 24 feet
    D. 36 feet

90. What is the width of a rectangle with a length of 5 inches and a perimeter of 16 inches? Draw a picture.

    A. 2 inches
    B. 3 inches
    C. 8 inches
    D. 21 inches

91. Sarah opens her book. What is the angle formed by the open book?

    A. less than a right angle (acute)
    B. equal to a right angle
    C. greater than a right angle (obtuse)
    D. cannot tell without a picture of a right angle

92. Which of the following is closest to 8 x 0.92?
    A. 800
    B. 80
    C. 8

93. What is the size of this angle?
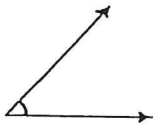
    A. acute
    B. equal to a right angle
    C. obtuse
    D. cannot tell without a picture of a right angle

94. Which angle is a right angle?
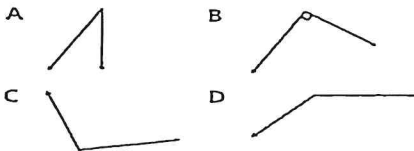
Do the following divisions. Then check your answer. Show your work. No calculators!

Check your work:

A. $1524 \div 6 =$ _____

$$\begin{array}{r} \times\ 6 \\ \hline 1524 \end{array}$$

B. $380 \div 10 =$ _____

$$\begin{array}{r} \times\ 10 \\ \hline 380 \end{array}$$

C. $4235 \div 10 =$ _____

x_____

D. 4) $\overline{769}$

x_____

E. 5) $\overline{765}$

x_____

Shade 3/5 of the boxes below:

□ □ □ □ □
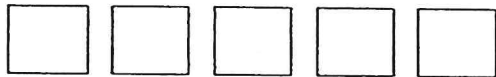
. Locate these two fractions on the number line, label each, and then explain which is larger.

$$2\frac{7}{12} \qquad \frac{11}{4}$$


```
◄——+————————————————+————————————————
   1                2
```

_____ is larger.

Locate and label these two fractions on the number line. Then tell which is larger.

$$2\frac{1}{2} \qquad \frac{3}{2}$$

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◄——+————————————————+————————————————+——►
   1                2                3
```
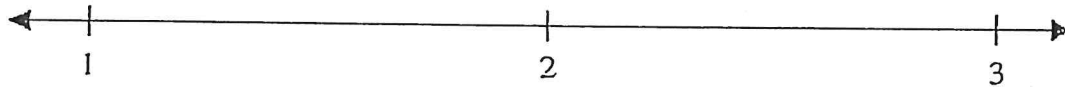
_____ is larger

On the strips below, shade and label the following fractions.

$$\frac{2}{3} \qquad \frac{4}{6} \qquad \frac{8}{12}$$

Largest fraction _____
Mid size fraction _____
Smallest fraction _____

. Find the products.
Any multiplication problem you do not know quickly please practice on flash cards.

6	4	7	5	12	3	6	3	0	7	5	6	3	8
x2	x4	x2	x4	x0	x5	x3	x8	x8	x3	x5	x4	x9	x3

6	2	3	8	7	12	8	3	11	7	9	4	4	9
x5	x12	x6	x2	x5	x1	x4	x7	x4	x6	x2	x8	x6	x3

4	5	0	5	9	5	2	9	5	11	5	9	7	7
x7	x0	x3	x8	x4	x7	x1	x5	x6	x5	x9	x8	x7	x9

8	6	8	1	9	9	8	1	9	2	1	3	12	1
x8	x6	x7	x2	x6	x9	x6	x9	x1	x5	x1	x4	x3	x3

8	8	12	8	12	5	3	4	2	7	6	2	6	12
x0	x1	x4	x9	x0	x1	x2	x0	x2	x1	x8	x6	x7	x5

8	4	2	9	12	11	2	7	0	6	1	5	3	2
x5	x1	x8	x7	x8	x6	x9	x4	x2	x9	x0	x2	x3	x4

4	12	4	4	1	2	11	6	7	5	2	1	4	11
X9	x6	x2	x3	x4	x3	x7	x1	x8	x3	x7	x8	x5	x4