Summer Math Packet
For Students Entering Grade 3

Student's Name ________________________

June 2013

Record your answers in this packet.

Review and Practice of Fairfield Math Objectives and CMT Objectives
1.) Which means the same as 63?
   a) 60 + 3
   b) 9 + 3
   c) 6 + 30
   d) 6 + 3

2.) Which means the same as 15?
   a) 1 + 50
   b) 10 + 5
   c) 6 + 50
   d) 1 + 5

3.) Which means the same as 50 + 9?
   a) 590
   b) 509
   c) 95
   d) 59

4.) Which means the same as 30 + 6?
   a) 36
   b) 63
   c) 306
   d) 360
5.) What number means the same as what is shown in the picture?

a) 15  
b) 33  
c) 45  
d) 70

6.) What number means the same as what is shown in the picture?

a) 20  
b) 44  
c) 54  
d) 56
7.) Which picture shows the number 45?

a)  

b)  

c)  

d)  

8.) Which picture shows the number 71?

a)  

b)  

c)  

d)  

9.) In which number does the 5 have the **GREATEST** value?

   a) 645  
   b) 563  
   c) 59   
   d) 5

10.) In which number does the 2 have the **GREATEST** value?

    a) 928  
    b) 652  
    c) 206  
    d) 27

11.) In which number does the 2 have the **LEAST** value?

    a) 2,140  
    b) 432  
    c) 261  
    d) 29

12.) In which number does the 6 have the **LEAST** value?

    a) 688  
    b) 460  
    c) 165  
    d) 56
13.) What number does the picture show?

![Pictorial Representation of Numbers]

a) 11
b) 35
c) 38
d) 83

14.) What number does the picture show?

![Pictorial Representation of Numbers]

a) 10
b) 46
c) 54
d) 64

15.) Shade in \( \frac{3}{4} \) of the box..
16.) What fraction of the group of squares is shaded?

\[
\begin{align*}
\text{a)} & \quad \frac{1}{2} \\
\text{b)} & \quad \frac{1}{3} \\
\text{c)} & \quad \frac{1}{4} \\
\text{d)} & \quad \frac{3}{4}
\end{align*}
\]

17.) In which picture is \( \frac{1}{3} \) of the circle shaded?

\[
\begin{align*}
\text{a)} & \quad \text{[Diagram]} \\
\text{b)} & \quad \text{[Diagram]} \\
\text{c)} & \quad \text{[Diagram]} \\
\text{d)} & \quad \text{[Diagram]}
\end{align*}
\]
18.) Which number is **LESS** than each of the following numbers?

\[
\begin{array}{cccc}
54 & 46 & 52 & 48 \\
\end{array}
\]

a) 44  
b) 50  
c) 52  
d) 49  

19.) Which number is **GREATER** than each of the following numbers?

\[
\begin{array}{cccc}
71 & 47 & 55 & 69 \\
\end{array}
\]

a) 78  
b) 58  
c) 70  
d) 49  

20.) Which number is **GREATER** than each of the following numbers?

\[
\begin{array}{cccc}
16 & 31 & 28 & 43 \\
\end{array}
\]

a) 15  
b) 55  
c) 37  
d) 40  

21.) Which list shows the numbers in order from **LEAST** to **GREATEST**?

a) 46, 63, 64, 36  
b) 57, 53, 75, 65  
c) 32, 33, 35, 53  
d) 78, 87, 77, 88
22.) Which list shows the numbers in order from **LEAST** to **GREATEST**?

   a) 66, 96, 78, 59  
   b) 59, 81, 98, 88  
   c) 27, 31, 37, 42  
   d) 79, 97, 86, 68

23.) Which list shows the numbers in order from **GREATEST** to **LEAST**?

   a) 26, 14, 87, 10  
   b) 87, 26, 20, 15  
   c) 20, 15, 62, 87  
   d) 14, 74, 87, 20

24.) What number is 1 **MORE** than 57?

   a) 10  
   b) 38  
   c) 58  
   d) 60

25.) What number is 1 **LESS** than 89?

   a) 58  
   b) 68  
   c) 78  
   d) 88

26.) What number is 2 **LESS** than 18?

   a) 15  
   b) 16  
   c) 20  
   d) 22
27.) Chris has 14 stamps. He has 2 letters to mail. He used 1 stamp on each letter. How many stamps does Chris have left?

   a) 16  
   b) 14  
   c) 13  
   d) 12

28.) Connie has 12 video games. This number is **CLOSEST** to:

   a) 10  
   b) 15  
   c) 20  
   d) 25

29.) There are 23 children on a field trip. This number is **CLOSEST** to:

   a) 15  
   b) 20  
   c) 25  
   d) 30

30.) In the barnyard there are 38 chickens. This number is **CLOSEST** to:

   a) 25  
   b) 30  
   c) 35  
   d) 40

31.) The number 36 would be **CLOSEST** to which point on the number line below?

   a) A  
   b) B  
   c) C  
   d) D
32.) The number 23 would be **CLOSEST** to which point on the number line below?

![Number Line A B C D]

- a) A
- b) B
- c) C
- d) D

33.) The number 16 would be **CLOSEST** to which point on the number line below?

![Number Line A B C D]

- a) A
- b) B
- c) C
- d) D

34.) The number 21 would be **CLOSEST** to which point on the number line below?

![Number Line A B C D]

- a) A
- b) B
- c) C
- d) D
35.) On the number line below, the number 72 is **CLOSEST** to which labeled point?

![Number Line](image)

a) A  
b) B  
c) C  
d) D

36.) On the number line below, the number 56 is **CLOSEST** to which labeled point?

![Number Line](image)

a) A  
b) B  
c) C  
d) D
37.) There are two boxes of scissors. Which number sentence tells how many scissors there are in all?

![Scissors model]

a) 5 - 4 = □

b) 5 - □ = 4

c) 4 + 5 = □

d) 9 + 5 = □

38.) Which number sentence tells how many fish there are in all?

![Fish model]

a) □ – 5 = 7

b) 5 + 2 = □

c) 2 + □ = 5

d) 7 - □ = 2
39.) Sally drew three pictures as part of a story she is writing. Picture 1 shows 7 dogs sleeping. Picture 2 shows some of the dogs running away. Picture 3 shows the number of dogs left.

**Sally’s Pictures**

Which number sentence best represents Sally’s pictures?

a) 3 + 4 = 7  

b) 4 + 3 = 7  

c) 7 – 4 = 3  

d) 7 – 3 = 4  

40.) The three pictures below are part of a story that Stacey is reading.

Which number sentence best represents the three pictures?

a) 6 – 3 = 3  

b) 9 + 6 = 15  

c) 9 – 3 = 6  

d) 9 + 3 = 15
41.) Martina drew three pictures as part of a story she is writing.

![Picture 1](image1.png) ![Picture 2](image2.png) ![Picture 3](image3.png)

Which number sentence best represents the three pictures?

a) $6 + 3 = 9$

b) $9 + 6 = 15$

c) $9 - 3 = 6$

d) $9 + 3 = 12$

42.) There were 8 chicks in the basket. Which number sentence shows how many chicks are still in the basket?

![basket of chicks](basket.png)

a) $6 - □ = 2$

b) $8 + 2 = □$

c) $8 - 2 = □$

d) $6 - 2 = □$
43.) Rudy had 6 nickels in his bank. He spent 3 of them. Which number sentence could be used to find out how many nickels Rudy has left?

a) $6 + 3 = \square$

b) $6 – 3 = \square$

c) $3 – 6 = \square$

d) $\square – 6 = 3$

44.) Arthur collected 12 stamps. He gave 5 to Kevin. Which number sentence could be used to find out how many stamps Arthur had left?

a) $12 + 5 = \square$

b) $12 – 5 = \square$

c) $12 + 7 = \square$

d) $7 – 12 = \square$

45.) There are 20 students in Mr. Hitzfield’s class and 15 students in Mrs. Horton’s class. Which number sentence could be used to find out how many students are in both classes?

a) $15 - \square = 20$

b) $\square – 20 = 15$

c) $20 – 15 = \square$

d) $20 + 15 = \square$

46.) Last week 15 people bought bicycles. This week 12 people bought bicycles. Which number sentence could be used to find out how many people bought bicycles in two weeks?

a) $12 + \square = 15$

b) $15 – 12 = \square$

c) $15 + 12 = \square$

d) $15 – \square = 12$
47.) Write a story problem that can be solved using the number sentence

\[ 8 + 4 = \square. \]

________________________________________________________________________

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48.) Write a story problem that can be solved using the number sentence

\[ 12 - 5 = \square. \]

________________________________________________________________________

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________________________________________________________________________
49.) Use counters, if needed, to solve the problem: $9 + 2 =$
   a) 6
   b) 10
   c) 11
   d) 12

50.) Use counters, if needed, to solve the problem: $8 + 9 =$
   a) 3
   b) 5
   c) 15
   d) 17

51.) Use counters, if needed, to solve the problem: $12 - 9 =$
   a) 3
   b) 7
   c) 13
   d) 17

52.) Use counters, if needed, to solve the problem: $15 - 6 =$
   a) 9
   b) 10
   c) 11
   d) 12
53.) How many birds are left on the tree after several fly away?

\[
14 - 6 = \square
\]

a) 3  
b) 6  
c) 8  
d) 10

54.) Use the materials shown to find \[46 + 8\].

\[
\begin{array}{cccccc}
\hline
\hline
1 & 4 & 6 & \hline
\hline
3 & 8 \hline
\hline
\end{array}
\]

\[
\begin{array}{cccc}
\hline
\hline
\square & \square & \square & \square \hline
\hline
\square & \square & \square \hline
\hline
\square & \square & \square \hline
\hline
\end{array}
\]

a) 64  
b) 54  
c) 44  
d) 42
55.) Use the materials shown to find \(32 + 6\).

\[ \text{a)} \ 26 \quad \text{b)} \ 34 \quad \text{c)} \ 38 \quad \text{d)} \ 39 \]

56.) What total number of blocks is represented by the sum below?

\[ \text{a)} \ 64 \quad \text{b)} \ 56 \quad \text{c)} \ 58 \quad \text{d)} \ 44 \]
57.) Renee caught 3 fish in the morning. Then she caught 8 fish in the afternoon. How many fish did she catch altogether? (Use counters if needed.)

   a) 5  
   b) 9  
   c) 10  
   d) 11

58.) Christie collected 15 eggs. Trent collected 7. How many MORE eggs did Christie collect than Trent? (Use counters if needed.)

   a) 7  
   b) 8  
   c) 9  
   d) 25

59.) Keegan brings 28 cookies to school. She gives 1 cookie to each of 9 friends. How many cookies does Keegan have left? (Use counters if needed.)

   a) 19  
   b) 17  
   c) 23  
   d) 21

60.) Moriah’s parents spent $53 at the grocery store. ABOUT how much money is that?

   a) a little less than $40  
   b) a little more than $40  
   c) a little less than $50  
   d) a little more than $50
61.) Jeremy is 47 inches tall. **ABOUT** how many inches is that?

   a) a little less than 40  
   b) a little more than 40 
   c) a little less than 50  
   d) a little more than 50 

62.) Which clock shows 1:00?

   a) ![Clock A]  
   b) ![Clock B]  
   c) ![Clock C]  
   d) ![Clock D]
63.) Which clock shows half-past 5?

a) 4:00  
b) 4:30  
c) 5:00  
d) 5:30

64.) Isaac cannot see the clock. Tell Isaac the time to the **NEAREST** half hour.

   a) about nine thirty  
   b) about ten o’clock  
   c) about ten thirty  
   d) about eleven o’clock
65.) Carlos paid the following for a candy bar.

How much money did the candy bar cost?

a) 8¢
b) 32¢
c) 57¢
d) 62¢

66.) Aimee bought an ice cream cone with the following coins.

How much money did Aimee spend?

a) 65¢
b) 75¢
c) 85¢
d) 95¢
67.) **ABOUT** how many grasshoppers will fit on the stick?

   ![Grasshopper Image]

   a) 2  
   b) 5  
   c) 8  
   d) 20

68.) **ABOUT** how many units long is the picture of the safety pin?

   ![Safety Pin Image]

   1 unit

   a) 2  
   b) 4  
   c) 6  
   d) 8
69.) **ABOUT** how many units long is the picture of the fish?

![Fish Image]

1 unit

a) 2  
b) 3  
c) 6  
d) 8

70.) **ABOUT** how many dimes will fit in the rectangle?

![Dime Image]

a) 1  
b) 2  
c) 4  
d) 8
71.) Leah places books side by side on a short shelf. The books are all the same size. One book is shown. **ESTIMATE** the number of books that will fit on the shelf.

![Image of a book]

a) 5  
b) 8  
c) 12  
d) 15

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**Customary and Metric Measures**

72.) Use pennies to measure:

- a) the length of your pencil __________ pennies long
- b) the length of your shoe __________ pennies long
- c) the length of your kitchen table top on one side __________ pennies long
- d) the length of your favorite story book __________ pennies long
73.) Joe takes 12 giant steps to measure the length of his classroom. Next Joe measures the length taking small steps. Tell how the number of steps changes when Joe uses small steps.

74.) Which unit would be **BEST** to measure the length of a dinner fork?

   a) yards
   b) miles
   c) inches
   d) feet

75.) Which is a **REASONABLE** length for a baseball bat?

   a) 3 inches
   b) 3 feet
   c) 3 yards
   d) 3 miles

76.) Which is a **REASONABLE** length for a shoe?

   a) 25 liters
   b) 25 kilometers
   c) 25 centimeters
   d) 25 meters
77.) Suppose you measure the height of your teacher’s desk. Which unit will you MOST likely use?

   a) inches  
   b) miles  
   c) pounds  
   d) hours

Geometric Shapes and Properties

78.) Which figure is a triangle inside of a circle?

   a) ![Circle with triangle inside](image1)  
   b) ![Triangle](image2)  
   c) ![Circle](image3)  
   d) ![Square](image4)

79.) Draw a rectangle.

80.) Draw a triangle.
81.) Use the graph below to figure out who collected MORE than 80 baseball cards?

**Baseball Card Collections**

<table>
<thead>
<tr>
<th>Names</th>
<th>Number of Cards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Andy</td>
<td>40</td>
</tr>
<tr>
<td>Barb</td>
<td>80</td>
</tr>
<tr>
<td>Chris</td>
<td>20</td>
</tr>
<tr>
<td>Dan</td>
<td>120</td>
</tr>
</tbody>
</table>

- a) Andy
- b) Barb
- c) Chris
- d) Dan

82.) Use the graph below to figure out how many apples the four girls picked altogether?

<table>
<thead>
<tr>
<th>Girls</th>
<th>Apples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gina</td>
<td>🍎🍎🍎🍎🍎🍎</td>
</tr>
<tr>
<td>Monica</td>
<td>🍎🍎🍎🍎🍎🍎</td>
</tr>
<tr>
<td>Barbara</td>
<td>🍎🍎🍎🍎🍎🍎</td>
</tr>
<tr>
<td>Betty</td>
<td>🍎🍎🍎🍎🍎🍎</td>
</tr>
</tbody>
</table>

= 1 apple

- a) 5
- b) 12
- c) 13
- d) 14
83.) Complete the **BAR** graph using the following information.

**Family Pets**

<table>
<thead>
<tr>
<th>Pets</th>
<th>Number of Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bird</td>
<td>2</td>
</tr>
<tr>
<td>Cat</td>
<td>4</td>
</tr>
<tr>
<td>Dog</td>
<td>6</td>
</tr>
<tr>
<td>Fish</td>
<td>3</td>
</tr>
</tbody>
</table>

[Bar graph diagram]
84.) Complete the **PICTOGRAPH** using the following information.

### Reading Progress

<table>
<thead>
<tr>
<th>Student</th>
<th>Number of Books Read</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alex</td>
<td>6</td>
</tr>
<tr>
<td>Dan</td>
<td>3</td>
</tr>
<tr>
<td>Kim</td>
<td>5</td>
</tr>
<tr>
<td>Len</td>
<td>4</td>
</tr>
</tbody>
</table>

Use □ = 1 book
85.) What is the next number in the pattern? Write the number. Then write a sentence that explains why you wrote that number.

2, 4, 6, 8, 10, ____

86.) What is the next shape in the pattern?

a) b) c) d)
Classification and Logical Reasoning

87.) Which shape does **NOT** belong?

![Shapes](image)

a) ![Shape](image)  

b) ![Shape](image)

c) ![Shape](image)

d) ![Shape](image)

88.) Sandi bought these two stickers for her sister.

![Stickers](image)

How are the stickers the **SAME**?

a) height  
b) size  
c) color  
d) shape
89.) Sort these animals into 2 groups. Write the sorting rule below.

GROUP 1

GROUP 2

Sorting Rule
90.) Jack spent $15 on flower plants. He bought at least 1 of each kind. Show 1 way Jack could have spent $15 on flowers.

Show your work.

<table>
<thead>
<tr>
<th>How many flowers?</th>
<th>How much did they cost?</th>
</tr>
</thead>
<tbody>
<tr>
<td>$3.00</td>
<td>__________________</td>
</tr>
<tr>
<td>$4.00</td>
<td>__________________</td>
</tr>
<tr>
<td>$2.00</td>
<td>__________________</td>
</tr>
</tbody>
</table>

TOTAL COST $____________
91.) You are going to make “souper” summer soup for your family. **You have to use at least one of each type of vegetable to make your soup.** Write how many of each you use on the line under the vegetable. You must choose 12 vegetables.

Show your work.