# Summer Marth Packet For Students Entering Crade 3 



## Student's JNome

## Jube 2012

Record your answers in this packet.

## Place Value

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 ?

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?

a) 11
b) 35
c) 38
d) 83
14.) What number does the picture show?

a) 10
b) 46
c) 54
d) 64
15.) Shade in $\frac{3}{4}$ of the box..


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16.) What fraction of the group of squares is shaded?

a) $\frac{1}{2}$
b) $\frac{1}{3}$
c) $\frac{1}{4}$
d) $\frac{3}{4}$
17.) In which picture is $\frac{1}{3}$ of the circle shaded?
a)

b)

c)

d)


## Order, Magnitude, and Rounding of Numbers

18.) Which number is LESS than each of the following numbers?

| 54 | 46 | 52 | 48 |
| :--- | :--- | :--- | :--- |

a) 44
b) 50
c) 52
d) 49
19.) Which number is GREATER than each of the following numbers?

| 71 | 47 | 55 | 69 |
| :--- | :--- | :--- | :--- |

a) 78
b) 58
c) 70
d) 49
20.) Which number is GREATER than each of the following numbers?
$\begin{array}{llll}16 & 31 & 28 & 43\end{array}$
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?

a) A
b) B
c) C
d) D
33.) The number 16 would be CLOSEST to which point on the number line below?

a) A
b) B
c) C
d) D
34.) The number 21 would be CLOSEST to which point on the number line below?

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

a) A
b) B
c) C
d) D
36.) On the number line below, the number 56 is CLOSEST to which labeled point?

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

## Models for Operations

37.) There are two boxes of scissors. Which number sentence tells how many scissors there are in all?

a) $5-4=\square$
b) $5-\square=4$
c) $4+5=\square$
d) $9+5=\square$
38.) Which number sentence tells how many fish there are in all?

a) $\square-5=7$
b) $5+2=\square$
c) $2+\square=5$
d) $7-\square=2$
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.


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?

a) $6-\square=2$
b) $8+2=\square$
c) $8-2=\square$
d) $6-2=\square$
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) $15-12=$ $\qquad$
c) $15+12=\square$
d) $15-\square=12$
47.) Write a story problem that can be solved using the number sentence

$$
8+4=\square
$$

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

$$
12-5=\square
$$

$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

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## Basic Facts

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

| Computations with Whole Numbers and Decimals |
| :---: |

54.) Use the materials shown to find
$46+8$.

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


##  

a) 26
b) 34
c) 38
d) 39
56.) What total number of blocks is represented by the sum below?

$+$

a) 64
b) 56
c) 58
d) 44

## Solve Word Problems

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

## Estimating Solutions to Problems

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

## Time and Money

62.) Which clock shows 1:00?
a)

b)

c)

d)

63.) Which clock shows half-past 5 ?

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) $8 \not \subset$
b) $32 \phi$
c) $57 \phi$
d) $62 \phi$
66.) Aimee bought an ice cream cone with the following coins.


How much money did Aimee spend?
a) $65 \phi$
b) $75 \phi$
c) $85 \varnothing$
d) $95 ¢$

## Approximating Measures

67.) ABOUT how many grasshoppers will fit on the stick?

a) 2
b) 5
c) 8
d) 20
68.) ABOUT how many units long is the picture of the safety pin?

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


1 unit
a) 2
b) 3
c) 6
d) 8
70.) ABOUT how many dimes will fit in the rectangle?

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.

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

## Customary and Metric Measures

72.) Use pennies to measure:

a) the length of your pencil $\qquad$ pennies long
b) the length of your shoe $\qquad$ pennies long
c) the length of your kitchen table top on one side
$\qquad$ pennies long
d) the length of your favorite story book $\qquad$ 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)

b)

c)

d)

79.) Draw a rectangle.
80.) Draw a triangle.

## Tables, Graphs, and Charts

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


Names
a) Andy
b) Barb
c) Chris
d) Dan
82.) Use the graph below to figure out how many apples the four girls picked altogether?

$\overbrace{}^{\text {a }}=1$ apple
a) 5
b) 12
c) 13
d) 14
83.) Complete the BAR graph using the following information.

Family Pets

| Pets | Number of <br> Students |
| :---: | :---: |
| Bird | 2 |
| Cat | 4 |
| Dog | 6 |
| Fish | 3 |

## Family Pets



Pets
84.) Complete the PICTOGRAPH using the following information.

## Reading Progress

| Student | Number of <br> Books Read |
| :---: | :---: |
| Alex | 6 |
| Dan | 3 |
| Kim | 5 |
| Len | 4 |

## Reading Progress

| Student | Number of Books Read |
| :---: | :---: |
| Alex |  |
| Dan |  |
| Kim |  |
| Len |  |

Use $\square=1$ book

## Patterns

85.) What is the next number in the pattern? Write the number. Then write a sentence that explains why you wrote that number.
$2, \quad 4, \quad 6, \quad 8, \quad 10$, $\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
86.) What is the next shape in the pattern?

$\qquad$
a)

b)

c)

d)


## Classification and Logical Reasoning

87.) Which shape does NOT belong?

a)

b)

c)

d)

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


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.

horse

frog

snake

GROUP 2

## GROUP 1

## Sorting Rule

## Mathematical Applications

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.

## How many flowers?


\$3.00

\$4.00

\$2.00

## How much did they cost?

$\qquad$
$\qquad$

TOTAL COST \$
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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.

