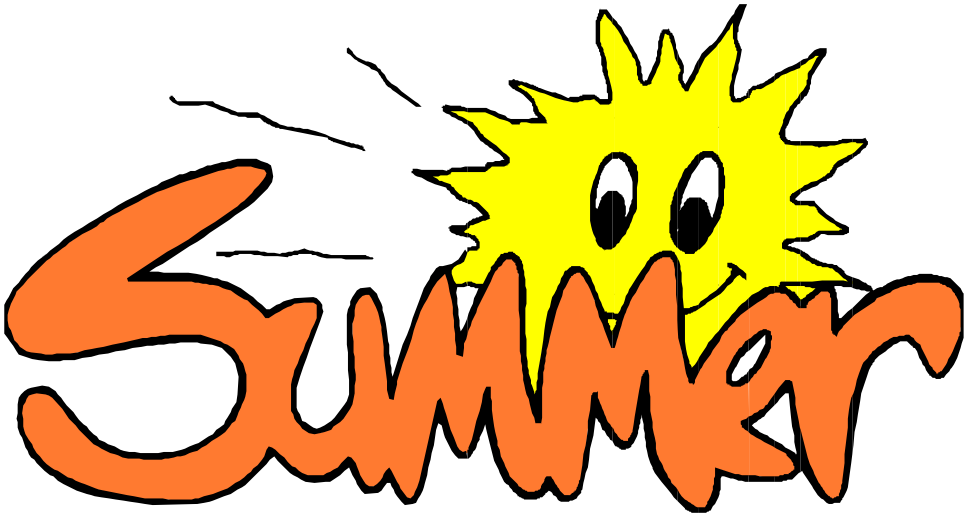


MATH PACKET

for

Students Entering the **Second Grade**

Students Name: _____

First <u>and</u> Last

Student's **Second** Grade Teacher: _____

Parent's Signature: _____

INTRODUCTION

Welcome to the summer math packet for students entering second grade. Activities are designed to support instruction in the MCPS curriculum in both its content and presentation. Activities may be done independently or with a parent, guardian, or older brother or sister. Talking about the problem can be an important part of completing some activities.

How Wayside's Summer Math Program Works:

- Students set their own goals for completing math activities.
- Students use the math packet to complete and record responses for the activities.

Summer Packet Content:

Standard 1: Operations and Algebraic Thinking

- Activity A: Birthday Oak
- Activity B: Spilling Punch

Standard 2: Number and Operations in Base Ten

- Activity A: Fallen Stars
- Activity B: Birthday Treat Bags

Standard 3: Measurement and Data

- Activity A: Day on the Beach
- Activity B: Jack & Jill

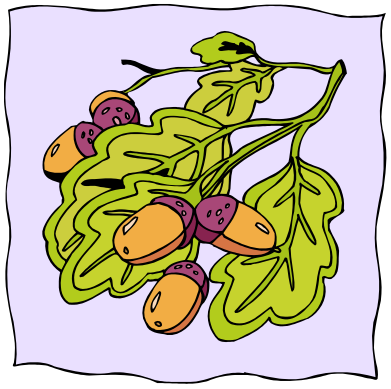
Standard 4: Geometry

- Activity A: Matching Shapes
- Activity B: Folding Paper

Review of Grade 1: Operations and Algebraic Thinking, Activity A

Birthday Oak

Directions: Read through the following problem and answer the questions. Use the space on the back of this page to complete your work. You may work with a parent, older brother or sister, or friend, but you must show all of your ideas in words, pictures or symbols to completely answer the questions.



On the day Miguel was born, his father planted an oak tree in the backyard. The tree was 10 feet tall on the day Miguel was born.

On his first birthday his parents measured the height of the tree. It had grown to 12 feet.

The following year, when Miguel was two, the tree was 14 feet tall.

On Miguel's third birthday, the tree was 16 feet tall.

A) If this pattern continues, how tall will the tree be on his fourth birthday?

B) How many feet does the tree grow each year?

CHALLENGE:

C) How tall will the tree be when Miguel celebrates his tenth birthday?

D) On his tenth birthday, how much will the tree have grown since it was first planted?

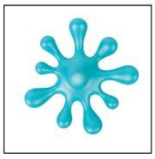
REMEMBER to show how you know your answers are correct.

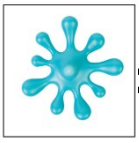
Review of Grade 1: Operations and Algebraic Thinking, Activity B

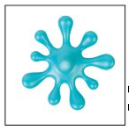
Directions: Read through the following problem and answer the questions. Use the space on the back of this page to complete your work. You may work with a parent, older brother or sister, or friend, but you must show all of your ideas in words, pictures or symbols to completely answer the questions.

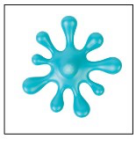
Spilling Punch

You are having a summer picnic. Your Aunt Loretta accidentally spills punch on your summer math packet. Use your math skills to figure out the missing numbers in the number sentences below

1.) $8 = 4 +$ 

2.) $9 +$  $= 12$

3.) $5 +$  $= 9$

4.)  $+ 3 = 7$

5.) $10 =$  $+ 1$

Challenge: Write your own problem with a spill and have someone solve it.

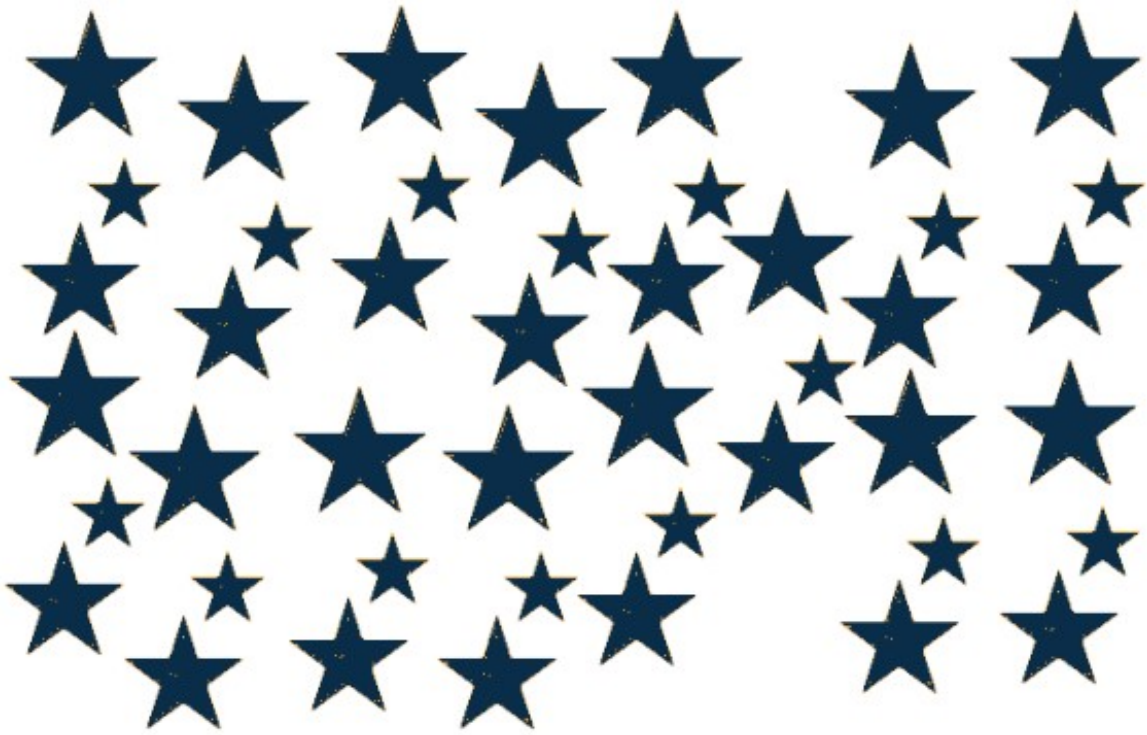
REMEMBER to show how you know your answers are correct.

Grade 1: Number and Operations in Base Ten, Activity A

Directions: Read through the following problem and answer the questions. Use the space on the back of this page to complete your work. You may work with a parent, older brother or sister, or friend, but you must show all of your ideas in words, pictures or symbols to completely answer the questions.

FALLEN STARS

Jaylon spilled a container of star stickers on the floor.



A) How many groups of 10 star stickers are there on the floor?

B) How many stickers are left over?

C) What is the total number of stickers that were spilled on the floor?

CHALLENGE:

D) If, Jaylon wanted to have a total of 80 star stickers, how many more does he need?

REMEMBER to show how you know your answers are correct.

Grade 1: Number and Operations in Base Ten, Activity B

Directions: Read through the following problem and answer the questions. Use the space on the back of this page to complete your work. You may work with a parent, older brother or sister, or friend, but you must show all of your ideas in words, pictures or symbols to completely answer the questions.

Birthday Treat Bags

Roberta has 100 candy treats. For her 11th birthday party, she wants to make goody bags for her guests with 11 treats in each bag.

A) How many goody bags can she make with 100 pieces of candy?

CHALLENGE:

Roberta has invited 12 friends to her party.

B) How many more piece of candy does she need to make a goody bag for each guest?

REMEMBER to show how you know your answers are correct.

Grade 1: Measurement and Data, Activity A

Directions: Read through the following problem and answer the questions. Use the space on the back of this page to complete your work. You may work with a parent, older brother or sister, or friend, but you must show all of your ideas in words, pictures or symbols to completely answer the questions.

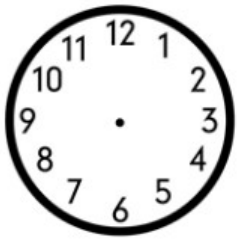
You are spending the **day on the beach**. Your schedule is below. Draw the hands or write the times.

8:00

Wake up

____ : ____

Eat breakfast.



11:00

Arrive at the beach

1:00

Eat lunch on the beach

____ : ____

Leave the beach

____ : ____

Have dinner

Challenge:

Dinner lasts 2 hours and it takes you 1 hour to get ready for bed. What time did you go to bed?

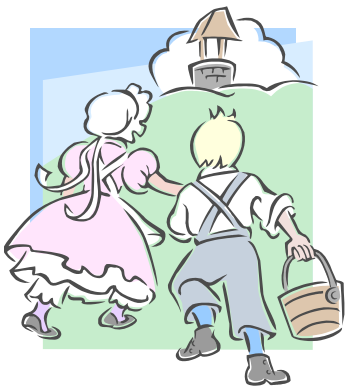
REMEMBER to show how you know your answers are correct.

Grade 1: Measurement and Data, Activity B

Directions: Read through the following problem and answer the questions. Use the space on the back of this page to complete your work. You may work with a parent, older brother or sister, or friend, but you must show all of your ideas in words, pictures or symbols to completely answer the questions.

Jack and Jill

Read the nursery rhyme below.



Jack and Jill went up a hill to fetch a pail of

water.

Jack fell down and broke his crown, and Jill

came tumbling after.

Use tally marks to complete the data chart below.

Length of Words by the Number of Letters in the Word

Fewer and three letters	
Three Letters	
Four Letters	
Five Letters	
More than five letters	

Now answer the questions on the other side of this paper.

A) What length of word is used the most in this nursery rhyme?

B) What length of word is used least?

CHALLENGE:

Pick a short rhyme or poem of your own and copy it into the space below.

C) Complete the same table as before using the nursery rhyme or poem that you chose.

Length of Words by the Number of Letters in the Word

Fewer and three letters	
Three Letters	
Four Letters	
Five Letters	
More than five letters	

Now answer the questions on the other side of this paper.

D) What length of word is used the most in this nursery rhyme?

E) What length of word is used least?

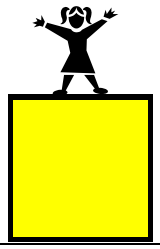
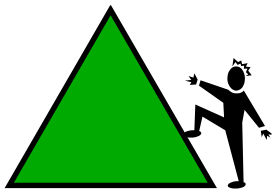
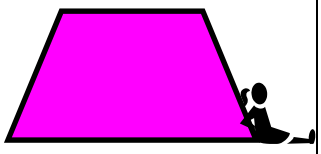
F) Write a sentence comparing the data from Jack and Jill with the data from your nursery rhyme or poem.

Review of Grade 1: Geometry, Activity A

Directions: Read through the following problem and answer the questions. Use the space on the back of this page to complete your work. You may work with a parent, older brother or sister, or friend, but you must show all of your ideas in words, pictures or symbols to completely answer the questions.

Matching Shapes

Match the following shapes to an object in your home. Tell how each shape is like the object that you chose.

The Shape	Your Object	How are they alike?
		
		
		

CHALLENGE:

Choose one of the shapes and draw it using a ruler in the space below

List as many objects as you can that are the same shape (at least 10, please).

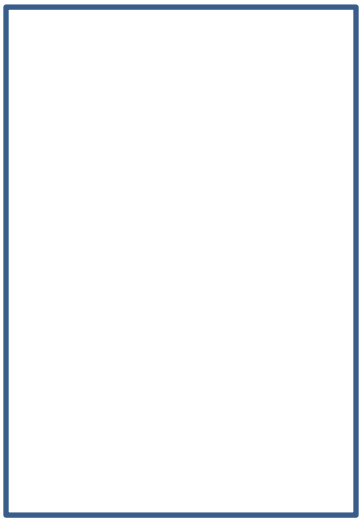
Review of Grade 1: Geometry, Activity B

Folding Paper

Directions: Read through the following problem and answer the questions. Use the space on the back of this page to complete your work. You may work with a parent, older brother or sister, or friend, but you must show all of your ideas in words, pictures or symbols to completely answer the questions.

For this activity use the sheet of paper on the back of this packet labeled “folding sheet”. The shape that a piece of paper makes is called a rectangle. Take the rectangle piece of paper and fold into 4 equal parts.

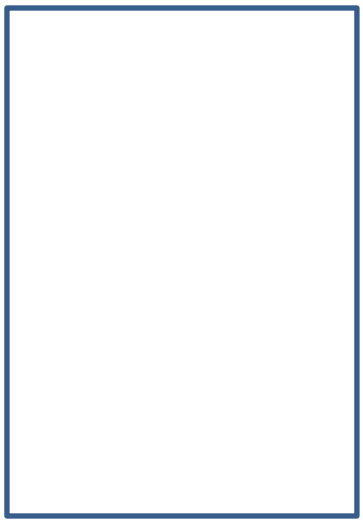
A) Use a pencil and a ruler to draw lines in the rectangle below to that show how you folded your paper to get 4 equal parts.



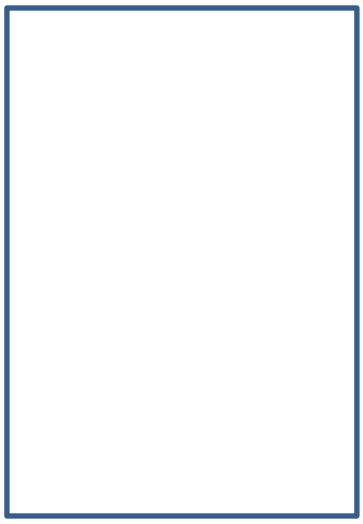
First Example

B) Can you think of three more ways to fold the paper in 4 equal portions that are different from each other?

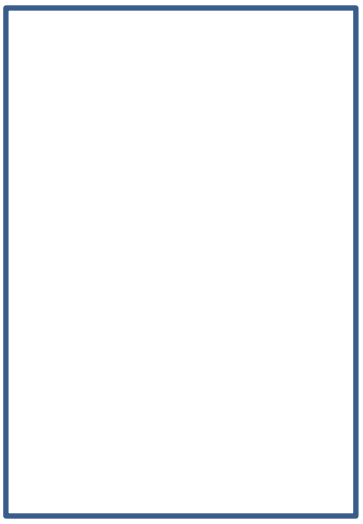
C) Use the rectangles on the back of this page to record as many as you can.



Second Example



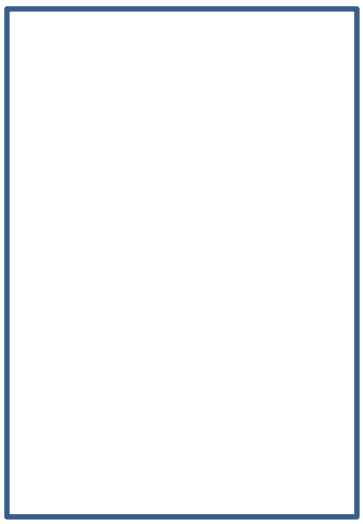
Third Example



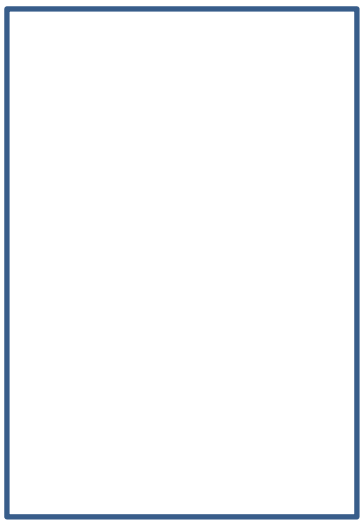
Fourth Example

CHALLENGE:

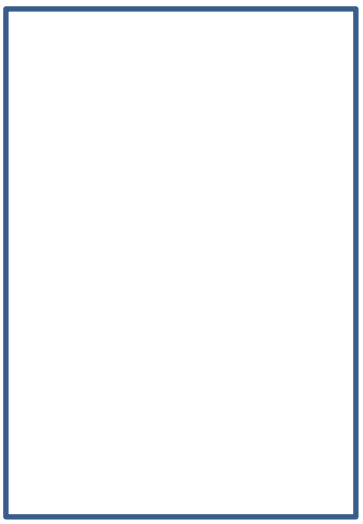
D) How many ways can you fold the paper into three equal parts? Use additional paper, if you need to.



First Example



Second Example

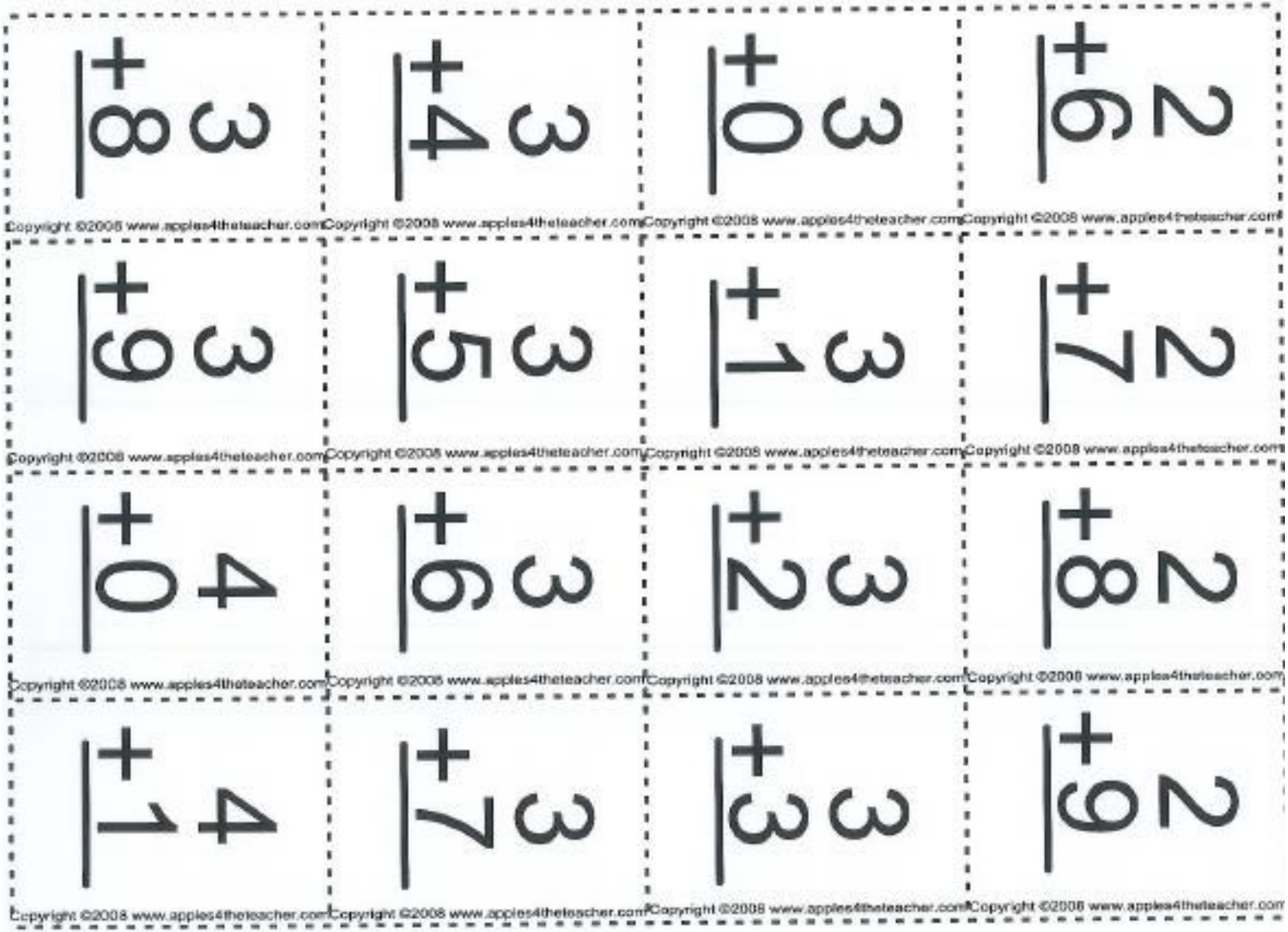


Third Example

BLANK

Folding Sheet

BLANK


8 + 3
4 + 3
10 + 3
6 + 2
9 + 3
5 + 3
11 + 3
7 + 2
10 + 4
6 + 3
12 + 3
8 + 2
11 + 4
7 + 3
13 + 3
9 + 2
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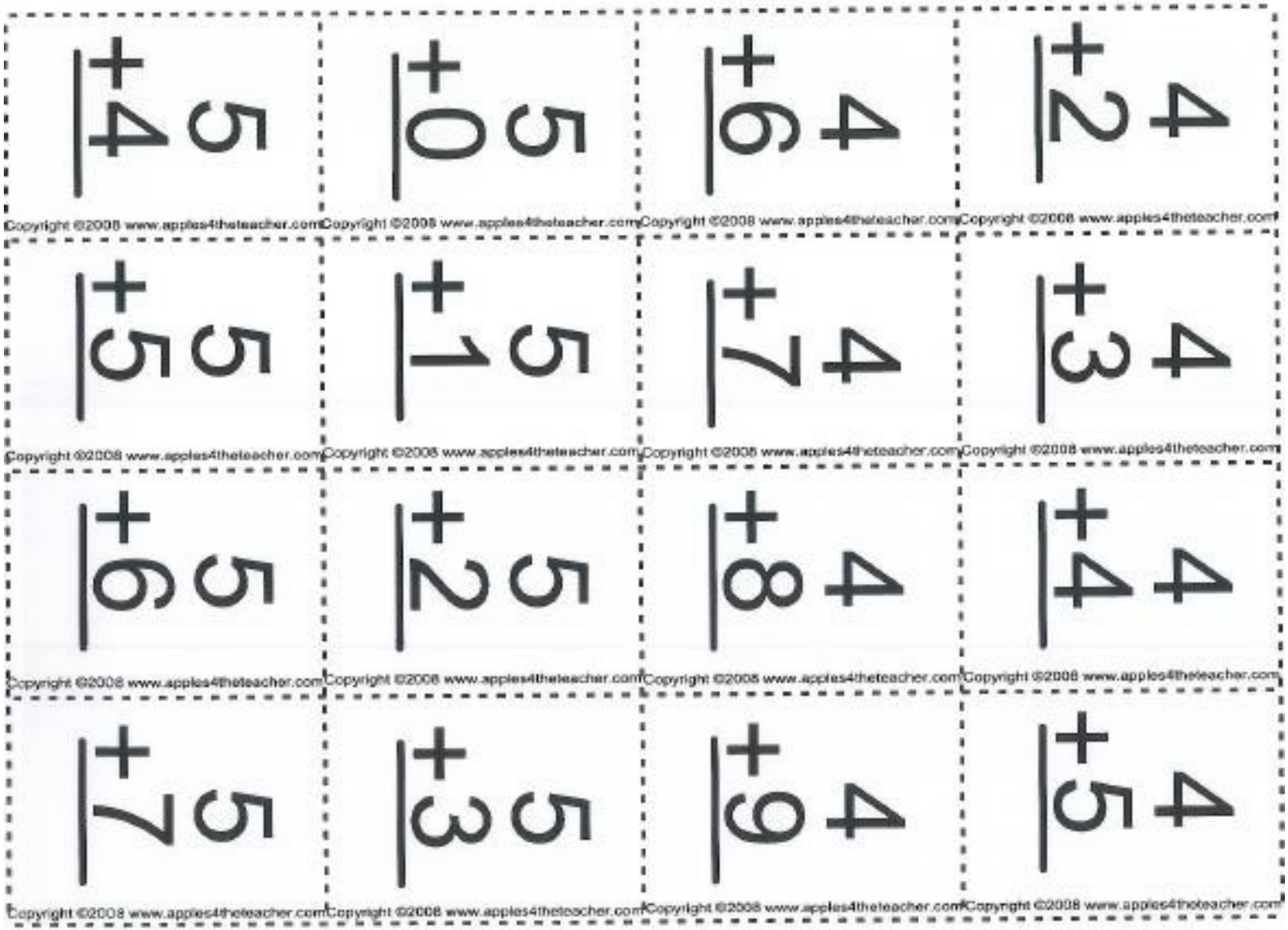


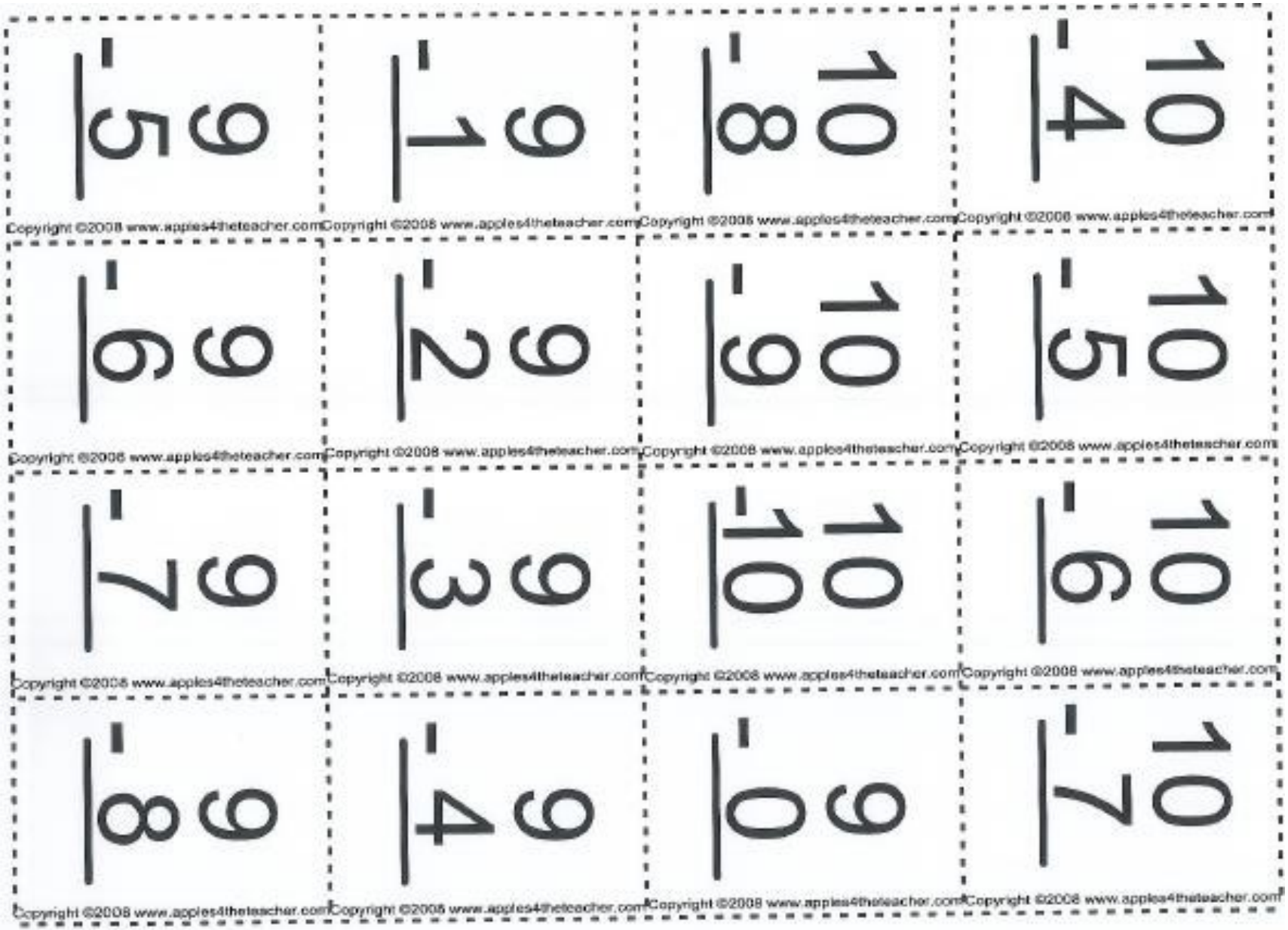
7 + 0	6 + 6	6 + 2	5 + 8
7 + 1	6 + 7	6 + 3	5 + 9
7 + 2	6 + 8	6 + 4	6 + 0
7 + 3	6 + 9	6 + 5	6 + 1

$\begin{array}{r} 7 \\ +4 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ +5 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ +6 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ +7 \\ \hline \end{array}$
$\begin{array}{r} 7 \\ +8 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ +9 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ +0 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ +1 \\ \hline \end{array}$
$\begin{array}{r} 8 \\ +2 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ +3 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ +4 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ +5 \\ \hline \end{array}$
$\begin{array}{r} 8 \\ +6 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ +7 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ +8 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ +9 \\ \hline \end{array}$

9 +0	9 +1	9 +2	9 +3
9 +4	9 +5	9 +6	9 +7
9 +8	9 +9	1 + 0 = 1 1 + 1 = 2 1 + 2 = 3 1 + 3 = 4 1 + 4 = 5 1 + 5 = 6 1 + 6 = 7 1 + 7 = 8 1 + 8 = 9 1 + 9 = 10	2 + 0 = 2 2 + 1 = 3 2 + 2 = 4 2 + 3 = 5 2 + 4 = 6 2 + 5 = 7 2 + 6 = 8 2 + 7 = 9 2 + 8 = 10 2 + 9 = 11
3 + 0 = 3 3 + 1 = 4 3 + 2 = 5 3 + 3 = 6 3 + 4 = 7 3 + 5 = 8 3 + 6 = 9 3 + 7 = 10 3 + 8 = 11 3 + 9 = 12	4 + 0 = 4 4 + 1 = 5 4 + 2 = 6 4 + 3 = 7 4 + 4 = 8 4 + 5 = 9 4 + 6 = 10 4 + 7 = 11 4 + 8 = 12 4 + 9 = 13	5 + 0 = 5 5 + 1 = 6 5 + 2 = 7 5 + 3 = 8 5 + 4 = 9 5 + 5 = 10 5 + 6 = 11 5 + 7 = 12 5 + 8 = 13 5 + 9 = 14	6 + 0 = 6 6 + 1 = 7 6 + 2 = 8 6 + 3 = 9 6 + 4 = 10 6 + 5 = 11 6 + 6 = 12 6 + 7 = 13 6 + 8 = 14 6 + 9 = 15

$\begin{array}{r} 7 \\ -\ 6 \\ \hline \end{array}$	$\begin{array}{r} 7 \\ -\ 7 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -\ 0 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -\ 1 \\ \hline \end{array}$
$\begin{array}{r} 6 \\ -\ 2 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -\ 3 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -\ 4 \\ \hline \end{array}$	$\begin{array}{r} 6 \\ -\ 5 \\ \hline \end{array}$
$\begin{array}{r} 6 \\ -\ 6 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ -\ 0 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ -\ 1 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ -\ 2 \\ \hline \end{array}$
$\begin{array}{r} 5 \\ -\ 3 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ -\ 4 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ -\ 5 \\ \hline \end{array}$	$\begin{array}{r} 4 \\ -\ 0 \\ \hline \end{array}$

9 - 9	8 - 0	8 - 1	8 - 2
8 - 3	8 - 4	8 - 5	8 - 6
8 - 7	8 - 8	7 - 0	7 - 1
7 - 2	7 - 3	7 - 4	7 - 5


$\frac{5}{6}$
$\frac{1}{6}$
$\frac{8}{10}$
$\frac{4}{10}$
$\frac{6}{6}$
$\frac{2}{6}$
$\frac{6}{10}$
$\frac{5}{10}$
$\frac{7}{6}$
$\frac{3}{6}$
$\frac{10}{10}$
$\frac{6}{10}$
$\frac{8}{6}$
$\frac{4}{6}$
$\frac{0}{6}$
$\frac{7}{10}$
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$10 - 0$	$11 - 8$	$11 - 4$	$11 - 0$
$10 - 1$	$11 - 9$	$11 - 5$	$11 - 1$
$10 - 2$	$11 - 10$	$11 - 6$	$11 - 2$
$10 - 3$	$11 - 11$	$11 - 7$	$11 - 3$