

Mathematics Revision Unit 2~~10/10/2013~~

Dear Parents,

8 October 2014

We will be having a short assessment of Unit 2 in Mathematics next week, Wednesday (~~23~~, **October**). Below is the content that needs to be revised along with practice pages and notes from the Student Reference Book.

Please go over this work with your child and check the answers together.

Content to be covered	Student Reference Book	Practice Sheets
Addition Methods <ul style="list-style-type: none">• Column• Partial-sum	Pages 10 & 11	Worksheets provided
Subtraction Methods <ul style="list-style-type: none">• Trade First• Partial-difference	Pages 12 & 15	Worksheets provided
Place Value for Whole Numbers	Page 4	Lesson 2.3 Math Boxes 2.4 no.1 Math Boxes 2.7 no.1
Many Names for Numbers		Study Link 2.2 Math Boxes 2.4 no.2 Math Boxes 2.7 no.2
Polygons	Page 96	Lesson 2.3 Revision worksheet
Bar Graphs <ul style="list-style-type: none">• minimum, maximum• range• mode• median	Page 73 & 74	Study Link 2.5 Study Link 2.6 Revision worksheet
Basic facts		Fact Triangles
Measuring to the nearest $\frac{1}{2}$ centimetre		Math Boxes 2.4 no.4 Math Boxes 2.7 no.5

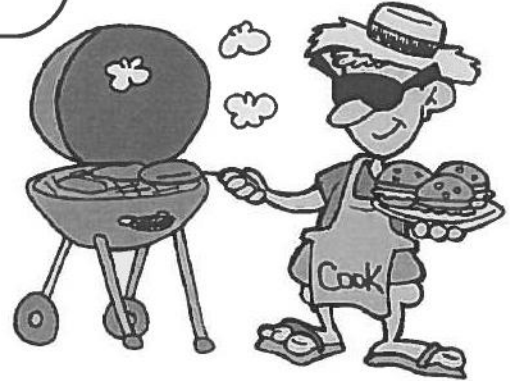
Name: _____

Addition

Find the sums.

a.
$$\begin{array}{r} 357 \\ + 208 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 299 \\ + 234 \\ \hline \end{array}$$



c.
$$\begin{array}{r} 483 \\ + 95 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 250 \\ + 590 \\ \hline \end{array}$$

e.
$$\begin{array}{r} 774 \\ + 526 \\ \hline \end{array}$$

f.
$$\begin{array}{r} 878 \\ + 316 \\ \hline \end{array}$$

g.
$$\begin{array}{r} 687 \\ + 678 \\ \hline \end{array}$$

h.
$$\begin{array}{r} 160 \\ + 74 \\ \hline \end{array}$$

i.
$$\begin{array}{r} 816 \\ + 905 \\ \hline \end{array}$$

j.
$$\begin{array}{r} 999 \\ + 777 \\ \hline \end{array}$$

- k. Mr. Sanford bought new grill and picnic table for his backyard. He spent \$178 on the grill and \$467 on the picnic table. How much did he spend in all?

- k. Mr. Sanford had a huge outdoor party. He grilled 145 hamburgers and 247 cheeseburgers for his guests. How many burgers did he grill in all?

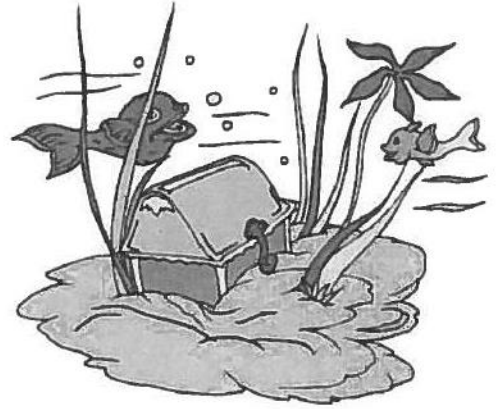
Name: _____

Addition with 4-Digit Addends

Find the sums.

a.
$$\begin{array}{r} 7,447 \\ + 2,987 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 3,986 \\ + 3,920 \\ \hline \end{array}$$



c.
$$\begin{array}{r} 6,978 \\ + \quad 87 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 2,408 \\ + 5,739 \\ \hline \end{array}$$

e.
$$\begin{array}{r} 5,876 \\ + 2,387 \\ \hline \end{array}$$

f.
$$\begin{array}{r} 6,261 \\ + \quad 980 \\ \hline \end{array}$$

g.
$$\begin{array}{r} \quad 46 \\ + 9,485 \\ \hline \end{array}$$

h.
$$\begin{array}{r} 5,096 \\ + 9,145 \\ \hline \end{array}$$

i.
$$\begin{array}{r} 1,898 \\ + \quad 737 \\ \hline \end{array}$$

j.
$$\begin{array}{r} 1,698 \\ + \quad 567 \\ \hline \end{array}$$

- k. A scuba diver finds a treasure chest in the ocean. When she opens it up, she discovers that it is filled with 3,567 gold coins and 1,793 silver coins. How many coins does the chest contain in all?

- l. The treasure chest also contains pearls! There are 1,356 white pearls and 562 black pearls. How many pearls are there altogether?

Partial Sums Addition Practice Set 3

Name: _____

Example: Solve $642 + 379$ using the partial sums method

	100's 10's 1's
	6 4 2
	+ 3 7 9
	9 0 0
Add the 100's $600 + 300 \rightarrow$	9 0 0
Add the 10's $40 + 70 \rightarrow$	1 1 0
Add the 1's $2 + 9 \rightarrow$	1 1
	1, 0 2 1
Add the partial sums $900 + 110 + 11 \rightarrow$	1, 0 2 1

$$\begin{array}{r} 234 \\ + 717 \\ \hline \end{array}$$

$$\begin{array}{r} 608 \\ + 549 \\ \hline \end{array}$$

$$\begin{array}{r} 477 \\ + 378 \\ \hline \end{array}$$

$$\begin{array}{r} 207 \\ + 413 \\ \hline \end{array}$$

$$\begin{array}{r} 108 \\ + 458 \\ \hline \end{array}$$

$$\begin{array}{r} 559 \\ + 11 \\ \hline \end{array}$$

Trade First Subtraction Method Practice Set 1 Name: _____

Example 1: Solve 642 - 379 using the trade first method

Trade in the 1's place if necessary. You cannot take 9 ones from 2 ones so you need to trade 1 ten for 10 ones. This trade results in the 4 tens becoming 3 tens and the 2 ones becoming 12 ones.

100's	10's	1's
5	4	2
6	4	2
- 3	7	9
2	6	3

Trade in the 10's place if necessary. You cannot take 7 tens from 3 tens so you need to trade 1 hundred for 10 tens. This trade results in the 6 hundreds becoming 5 hundreds and the 3 tens becoming 13 tens.

Subtract each place value.

$$642 - 379 = 263$$

Example 3: Solve 400 - 263 using the trade first method

Trade in the 1's place if necessary. You cannot take 3 ones from 0 ones so you need to trade 1 ten for 10 ones. However, there are no tens so you need to trade 1 hundred for 10 tens. Now you can trade 1 ten for 10 ones. This trade results in the 4 hundreds becoming 3 hundreds, the 0 tens becoming 10 tens, the 10 tens becoming 9 tens, and the 0 ones becoming 10 ones.

100's	10's	1's
3	0	0
4	0	0
- 2	6	3
1	3	7

Trade in the 10's place if necessary. You can take 6 tens from 9 tens so you do not need to trade.

Subtract each place value.

$$400 - 263 = 137$$

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

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

Partial Differences Subtraction Method Practice Set 1 Name: _____

Example: Solve $642 - 379$ using the partial differences method

$$642 - 379 = ?$$

Subtract the 100's: $600 - 300 = 300$
Use a "+" sign because the bottom number is smaller.

Subtract the 10's: $40 - 70 = 30$
Use a "-" sign because the top number is smaller.

Subtract the 1's: $2 - 9 = 7$
Use a "-" sign because the top number is smaller.

$$\begin{array}{r} 642 \\ - 379 \\ \hline + 300 \\ - 30 \\ - 7 \\ \hline 263 \end{array}$$

Total the "partial differences" to find your difference.

$$642 - 379 = 263$$

$$\begin{array}{r} 876 \\ - 272 \\ \hline \end{array} \quad \begin{array}{r} 437 \\ - 232 \\ \hline \end{array} \quad \begin{array}{r} 952 \\ - 423 \\ \hline \end{array}$$

$$\begin{array}{r} 824 \\ - 161 \\ \hline \end{array} \quad \begin{array}{r} 709 \\ - 544 \\ \hline \end{array} \quad \begin{array}{r} 500 \\ - 480 \\ \hline \end{array}$$



Taking Apart, Putting Together

Complete.

1. In 574

5 is worth 500

7 is worth _____

4 is worth _____

2. In 9,027

9 is worth _____

0 is worth _____

2 is worth _____



3. In 280,743

8 is worth _____

2 is worth _____

4 is worth _____

4. In 56,010,837

6 is worth _____

1 is worth _____

5 is worth _____

5. In 705,622,463

5 is worth _____

6 is worth _____

7 is worth _____

6. In 123,456,789

4 is worth _____

3 is worth _____

2 is worth _____

Add.

$$\begin{array}{r} 7. \quad 900 \\ \quad 70 \\ + \quad 5 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 30,000 \\ \quad 7,000 \\ \quad \quad 50 \\ + \quad \quad 2 \\ \hline \end{array}$$

$$\begin{array}{r} 9. \quad 50,000,000 \\ \quad 9,000,000 \\ \quad \quad 60,000 \\ \quad \quad \quad 2,000 \\ \quad \quad \quad \quad 800 \\ + \quad \quad \quad \quad 50 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 300,000,000 \\ \quad 9,000,000 \\ \quad \quad 200,000 \\ \quad \quad \quad 70,000 \\ \quad \quad \quad \quad 30 \\ + \quad \quad \quad \quad 1 \\ \hline \end{array}$$

11. Think about why we need zeros when writing numbers. What would happen if you did not write the zero in the number 5,074?

LESSON
2•4

Math Boxes



1. What is the largest number you can make with the digits 3, 0, 3, 8, and 0? Fill in the circle next to the best answer.

- (A) 83,003
 (B) 83,030
 (C) 83,300
 (D) 80,033



2. Add mentally or with a paper-and-pencil algorithm.

a.
$$\begin{array}{r} 145 \\ + 34 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 297 \\ + 136 \\ \hline \end{array}$$



3. Draw a concave pentagon.

4. Measure these line segments to the nearest centimeter.

a. _____

About _____ centimeters

b. _____

About _____ centimeters



5. Complete.

a. 14 in. = _____ ft _____ in.

b. _____ in. = 2 ft

c. _____ ft = 7 yd

d. 1 yd 1 ft = _____ in.

e. 413 ft = _____ yd _____ ft



6. Divide mentally.

a. $16 \div 2 =$ _____

b. $20 \div 10 =$ _____

c. _____ = $40 \div 5$

d. $60 \div 10 =$ _____

e. _____ = $45 \div 5$



LESSON
2·7
Math Boxes


1. A number has
 3 in the millions place,
 1 in the ones place,
 8 in the thousands place,
 9 in the ten-thousands place,
 0 in the tens place,
 6 in the hundred-thousands place, and
 5 in the hundreds place.

Write the number.

____, _____, _____



2. Write five names for 100.

100



3. Write $>$, $<$, or $=$ to make each number sentence true.

- a. $16 + 11$ _____ 47
 b. 206 _____ 602
 c. $150 - 50$ _____ 100
 d. $62 + 10 + 10$ _____ $62 - 10 - 10$
 e. $423,726$ _____ $413,999$



4. Draw a parallelogram. Label the vertices so that side AB is parallel to side CD .



5. Measure these line segments to the nearest $\frac{1}{2}$ centimeter.

a. _____

About _____ cm

b. _____

About _____ cm



6. Multiply mentally.

a. $5 \times 8 =$ _____

b. $2 \times$ _____ $= 16$

c. $7 \times$ _____ $= 21$

d. _____ $\times 9 = 54$

e. $8 \times 3 =$ _____



Name _____

Date _____

Time _____

STUDY LINK
2·2

Many Names for Numbers



1. Write five names for 64.

64

2. Write five names for 132.

132

3. Pretend that the 4-key on your calculator is broken. Write six ways to display the number 40 on the calculator without using the 4-key. Try to use different numbers and operations.

Example: $2 \times 2 \times 10$

Try This

4. Now pretend that all the keys on your calculator work except for the 3-key and the 6-key. Write six ways to display the number 36 without using these keys.

Practice

5. $20 + 60 =$ _____

6. _____ $= 60 + 90$

7. _____ $= 80 - 30$

8. $110 - 40 =$ _____

Date _____

Time _____

LESSON
2.3

Polygon Checklist

Place a check mark next to all of the statements that are true about each figure.
Write an additional true statement for each figure.



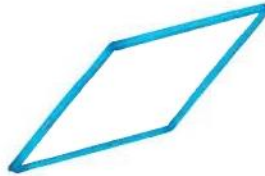
1.



- 1 pair of parallel sides
- at least 1 right angle
- quadrangle
- polygon
- concave
- parallelogram



2.



- 4 sides of equal length
- kite
- square
- parallelogram
- convex
- opposite sides parallel



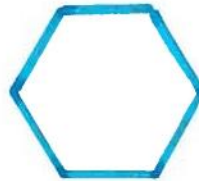
3.



- all sides of equal length
- all angles of equal measure
- one right angle
- polygon
- equilateral triangle
- 1 pair of parallel sides



4.



- regular polygon
- all sides of equal length
- all angles of equal measure
- pentagon
- octagon
- all angles smaller than right angles



Math Revision Sheet

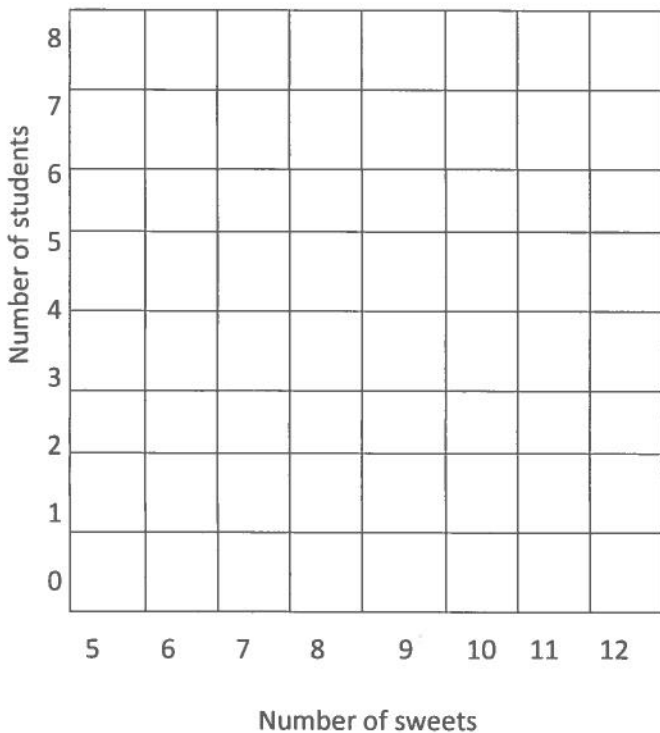
1. Draw a polygon with at least one right angle. Mark the right angle(s) with a square corner symbol.

2. Is the polygon you drew a parallelogram? _____

Explain:

3. Use the data given below to draw a bar graph.

Sweets the Students have



Number of sweets	Number of students
5	
6	
7	
8	
9	
10	
11	
12	

STUDY LINK
2•5

Collecting Data



1. Make a list of all the people in your family. Include all the people living at home now. Also include any brothers or sisters who live somewhere else. The people who live at home do not have to be related to you. Do not forget to write your name in the list.

You will need this information to learn about the sizes of families in your class.

How many people are in your family? _____ people

The tally chart at the right shows the number of books that some students read over the summer. Use the information to answer the questions below.

Number of Books Reported	Number of Students
2	///
3	###
4	
5	### //
6	###
7	//
8	////

2. How many students reported the number of books they read? _____
3. What is the **maximum** (the largest number of books reported)? _____
4. What is the **minimum** (the smallest number of books reported)? _____
5. What is the **range**? _____
6. What is the **mode** (the most frequent number of books reported)? _____

Practice

7. $30 + 50 =$ _____

8. _____ $= 70 + 70 + 70$

9. _____ $= 90 + 80 + 60$

10. $100 + 40 + 70 =$ _____

STUDY LINK
2•6

Line Plots



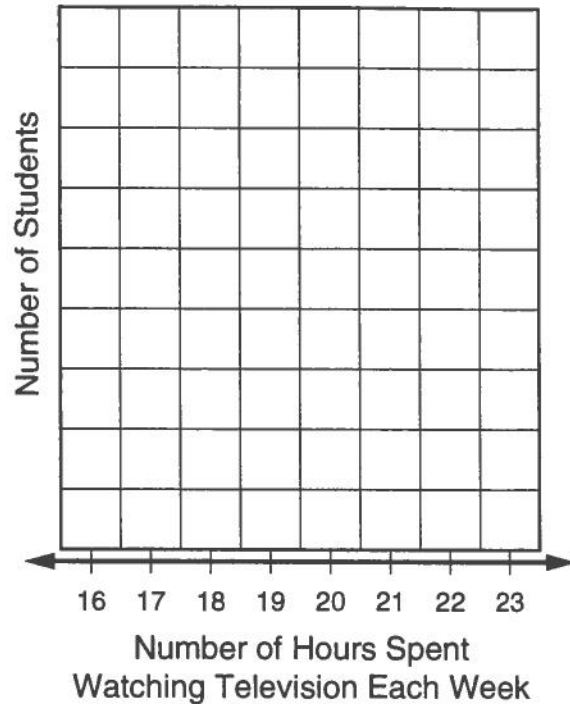
The students in Sylvia's class estimated how much time they spend watching television each week. The tally chart below shows the data they collected.

Number of Hours per Week Spent Watching TV	Number of Students
16	///
17	///
18	
19	### I
20	### IIII
21	I
22	###
23	II

1. Construct a line plot for the data.



Student Data on Television Time



2. Find the following landmarks for the data:

- a. The maximum number of hours spent watching television each week. _____ hours
 b. minimum _____ hours
 c. range _____ hours
 d. mode _____ hours
 e. median _____ hours

3. Estimate the amount of time that you watch television each week. _____ hours

Try This

4. Calculate the mean number of hours Sylvia and her classmates spent watching TV each week. _____ hours

Practice

5. $80 + 30 =$ _____
 6. _____ $= 90 + 90$
 7. _____ $= 70 + 60$
 8. $120 + 30 =$ _____