North Penn School District

Elementary Math Parent Letter

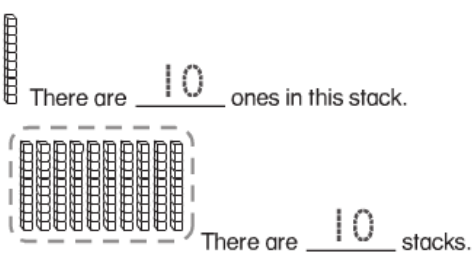# Grade 2

Unit 1 – Chapter 2: Numbers to 1,000

Examples for each lesson

Lesson 2.1

Group Tens as Hundreds

CC.2.NBT.1b
Understand place value.

There are ___10___ ones in this stack.

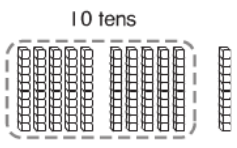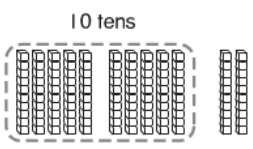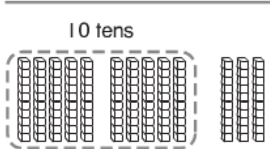There are ___10___ stacks.

10 stacks of 10 ones is 100 ones.

___10___ tens → ___1___ hundred → ___100___

More information on this strategy is available on Animated Math Model #7.

Lesson 2.2

Explore 3-Digit Numbers

Understand place value.

10 tens

___11___ tens

___1___ hundred ___1___ ten

110

10 tens

___12___ tens

___1___ hundred ___2___ tens

120

10 tens

___13___ tens

___1___ hundred ___3___ tens

130
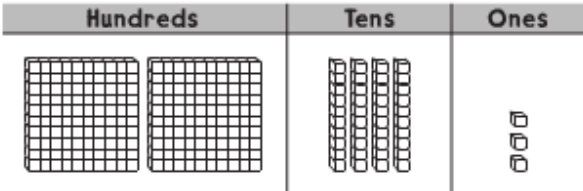
Lesson 2.3

Model 3-Digit Numbers

Understand place value.

Show 243.

Hundreds	Tens	Ones

With blocks:

In a chart:

Hundreds	Tens	Ones
2	4	3

With a quick picture:
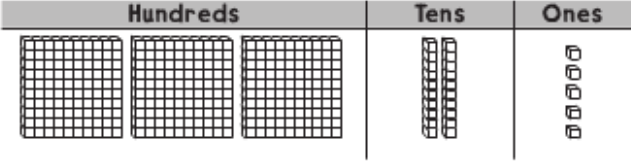
Lesson 2.4

Hundreds, Tens, and Ones

Understand place value.

How many are there in all?

Hundreds	Tens	Ones

___3___ hundreds ___2___ tens ___5___ ones

Write how many in the chart.

Hundreds	Tens	Ones
3	2	5

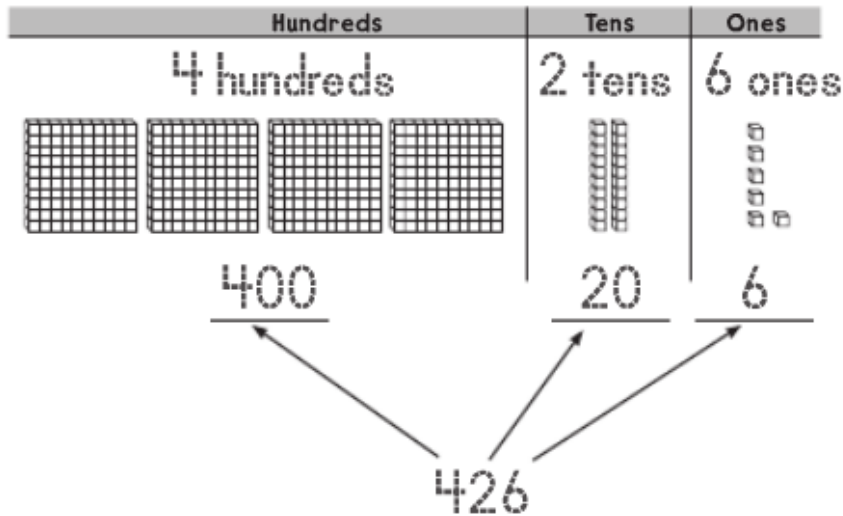Write the number as hundreds plus tens plus ones.

_300_ + _20_ + _5_

3 hundreds 2 tens 5 ones is the same as _325_.

Lesson 2.5

Place Value to 1,000

Understand place value.

The value of each digit in 426 is shown by its place in the number.

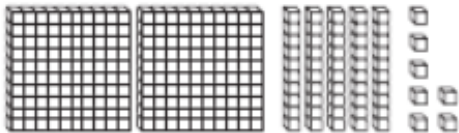| Hundreds	Tens	Ones
4 hundreds	2 tens	6 ones
400	20	6

426

More information on this strategy is available on Animated Math Model #8.

Lesson 2.6

Number Names

Understand place value.

You can write a number using words.

257

What is shown with the hundreds blocks?

two hundred

What is shown with the tens and ones blocks?

fifty-seven

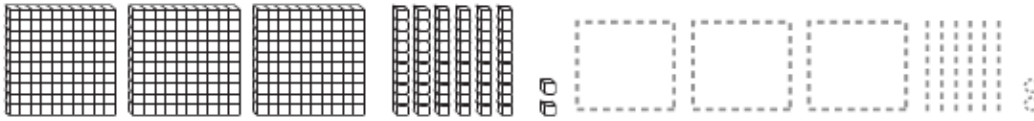So you write 257 as two hundred fifty-seven.

Lesson 2.7

Different Forms of Numbers

Understand place value.

There is more than one way to show and write a number.
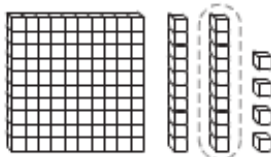
three hundred sixty-two

___3___ hundreds ___6___ tens ___2___ ones

___300___ + ___60___ + ___2___
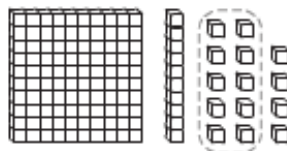
___362___

Lesson 2.8

Algebra • Different Ways to Show Numbers

Understand place value.

These two models can both be used to show the number 124.

1 ten has the same value as 10 ones.

Hundreds	Tens	Ones
1	2	4

Hundreds	Tens	Ones
1	1	14

More information on this strategy is available on Animated Math Model #9.

Lesson 2.9

Count On and Count Back by 10 and 100

Use place value understanding and properties of operations to add and subtract.

10 less than 234

2 hundreds 2 tens 4 ones

224

Notice what digit changes.

100 less than 234

1 hundred 3 tens 4 ones

134

10 more than 234

2 hundreds 4 tens 4 ones

244

100 more than 234

3 hundreds 3 tens 4 ones

334

Lesson 2.10

Algebra · Number Patterns

Use place value understanding and properties of operations to add and subtract.

Find a counting pattern.

421, 431, 441, 451, ■, ■

Which digit changes from number to number?

The _tens_ digit changes.

How does it change?

by _one_ each time

Look at the chart. Find the next two numbers in the pattern.

401	402	403	404	405	406	407	408	409	410
411	412	413	414	415	416	417	418	419	420
421	422	423	424	425	426	427	428	429	430
431	432	433	434	435	436	437	438	439	440
441	442	443	444	445	446	447	448	449	450
451	452	453	454	455	456	457	458	459	460
461	462	463	464	465	466	467	468	469	470
471	472	473	474	475	476	477	478	479	480
481	482	483	484	485	486	487	488	489	490
491	492	493	494	495	496	497	498	499	500

The next two numbers are _461_ and _471_.

Lesson 2.11

Problem Solving • Compare Numbers

Understand place value.

At the zoo, there are 137 birds and 142 reptiles.
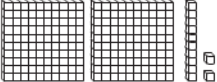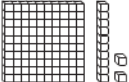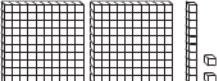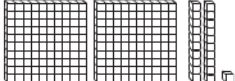Are there more birds or more reptiles at the zoo?
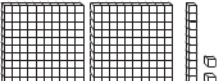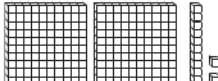
Unlock the Problem

What do I need to find?	What information do I need to use?
I need to find if there are more ___birds___ or ___reptiles___.	There are __137__ birds. There are __142__ reptiles.

Show how to solve the problem.

Birds   Reptiles

The number of hundreds is the same.
There are more tens in the number of reptiles.

There are more ___reptiles___ at the zoo.

Lesson 2.12

Algebra • Compare Numbers

Understand place value.

To compare 3-digit numbers, first compare hundreds.

2̲12 has more hundreds than 1̲12.   212 (>) 112

If hundreds are equal, then compare tens.

21̲2 has fewer tens than 22̲1.   212 (<) 221

If hundreds and tens are equal, then compare ones.

212 (=) 212

More information on this strategy is available on Animated Math Model #10.

Vocabulary

Compare – to describe whether numbers are equal to, less than, or greater than one another

Hundred – a quantity that is equivalent to 10 tens

Is greater than (>) – a symbol used to compare two numbers when the first number has the greater value

Is less than (<) – a symbol used to compare two numbers when the first number has the lesser value

Is equal to (=) – a symbol used to compare two numbers having the same value

Thousand – a quantity that is equivalent to 10 hundreds