

MATH NEWS

Grade 2, Unit 3, Topic E

Fall 2014

2nd Grade Math

Unit 3: Place Value, Counting, & Comparison on Numbers to 1000

Math Parent Letter

This document is created to give parents and students a better understanding of the math concepts found in the material taught in the classroom. Unit 3 covers Place Value, Counting, & Comparison on Numbers to 1000. This newsletter will discuss Unit 3, Topic E.

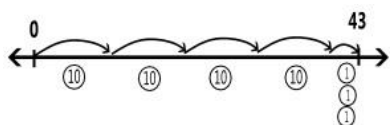
Topic E. Modeling Numbers within 1,000 with Place Value Disks

Words to know

- Hundreds
- Tens
- Ones
- Thousands
- Place Value Chart
- Place Value Disks
- Number Disks
- Groups

Things to remember!!!

Count on a number line.



OBJECTIVE OF TOPIC E

- 1 Count the total value of ones, tens, and hundreds with place value disks.
- 2 Change 10 ones for 1 ten, 10 tens for 1 hundred, and 10 hundreds for 1 thousand.
- 3 Read and write numbers within 1,000 after modeling with place value disks.
- 4 Model numbers with more than 9 ones or 9 tens; write in expanded, unit, number, and word forms.
- 5 Explore a situation with more than 9 groups of ten.

Focus Area— Topic E

Modeling Numbers within 1,000 with Place Value Disks

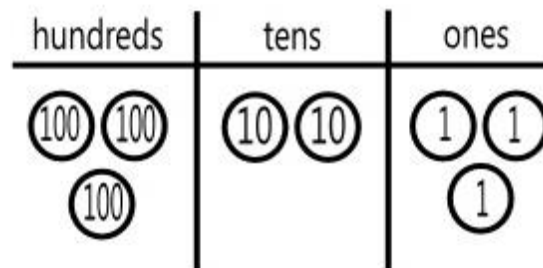
What is a number disk?

A number disk is the same as a place value disk. The only difference is a number disk is used to represent numbers and a place value disk represents numbers on a place value chart.

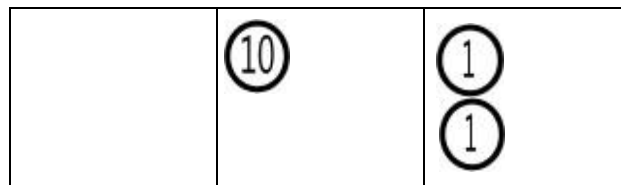
323 with number disks



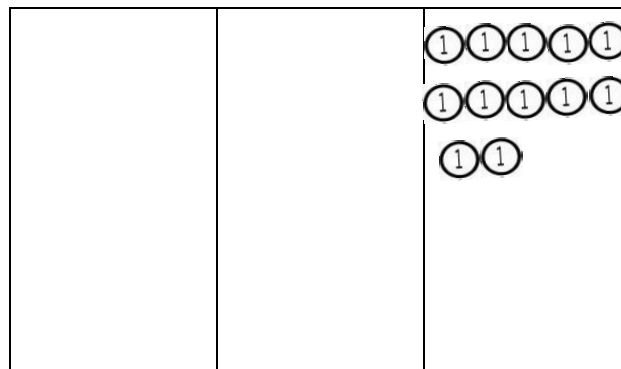
323 with place value disks



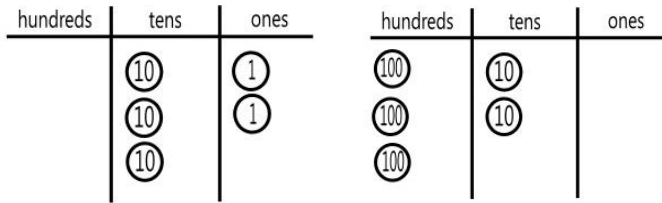
Draw 12 using tens and ones place value disks.



Draw 12 using ones place value disks.



Tell the value of the following numbers.



The value is 32.

The value is 320.

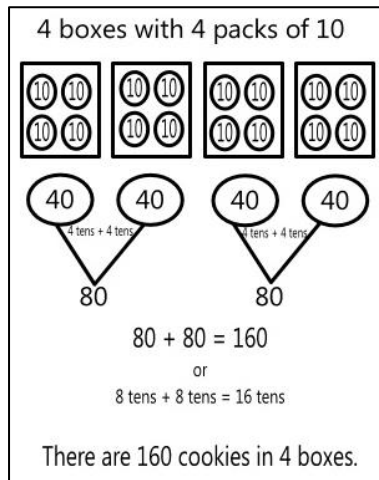
Fill in the sentence to tell about the change from 32 to 320.

I changed 2 ones for 2 tens.

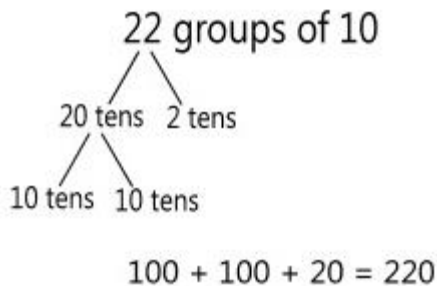
I changed 2 tens for 2 hundreds.

Word Problems

Ms. Jessie bought 4 boxes of cookies. Each box had 4 smaller packs of 10 inside. How many packs of cookies were in the 4 boxes?



The 3rd grade class has 22 students. What is the total number of toes of the students?



22 students have 220 toes.

Fill in the blanks

125 = 1 hundreds 2 tens 5 ones

25 = 0 hundreds 2 tens 5 ones

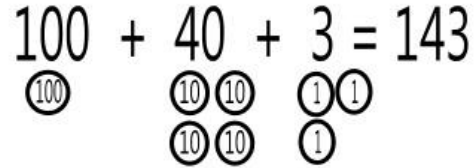
220 = 2 hundreds 2 tens 0 ones

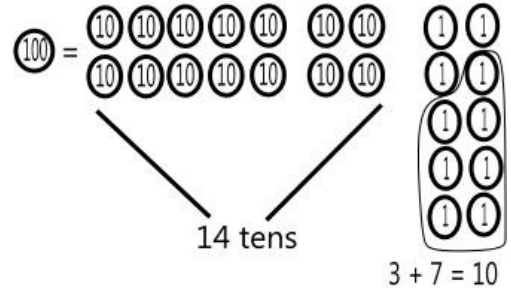
22 = 22 tens 0 ones

Word Problems and Number Disks

How many packages of 10 cupcakes can Cathy make using 143 cupcakes? How many cupcakes does she need to complete another set of 10?

143 cupcakes

$$100 + 40 + 3 = 143$$


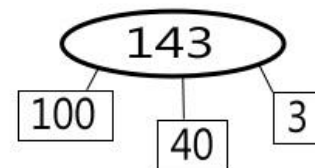


Cathy can make 14 packages of 10 cupcakes.
She needs 7 more to complete another package.

There are 10 tens in one hundred. So combine the 10 tens and the 4 tens. $10 \text{ tens} + 4 \text{ tens} = 14 \text{ tens}$. To make another complete set 10 cupcakes are needed. There are 3 cupcakes left, $3 + 7 = 10$. 7 more cupcakes are needed to make another complete set.

Another way the problem could have been solved is by using number bonds.

143 cupcakes



$10 \text{ tens} + 4 \text{ tens} = 14 \text{ tens}$
 $3 \text{ ones} + 7 \text{ ones} = 10 \text{ ones}$

Cathy can make 14 packages of 10 cupcakes.
She needs 7 more to complete another package.

143 can be expressed using a number bond. Knowing that 1 hundred is also equal to 10 tens, it can be written in expanded form. $10 \text{ tens} + 4 \text{ tens} + 3 \text{ tens}$. $10 \text{ tens} + 4 \text{ tens} = 14 \text{ tens}$. 7 more ones will be needed to make 1 more ten.