As you may know, the State of Utah has recently adopted the new Utah Core State Standards for Mathematics K-12. GO MATH is the math series we are using to implement these standards. This program gives the children many strategies to use in order to come up with the correct answer. As we are learning, I model all of the strategies to help the children find different ways to solve each problem. The goal is to be comfortable with all of the strategies in order to use the most efficient method to solve a variety

This page lists the various strategies we are teaching for this unit, Addition Concepts. Hopefully these examples will help you to understand what your student will be asked to do on their homework assignments.

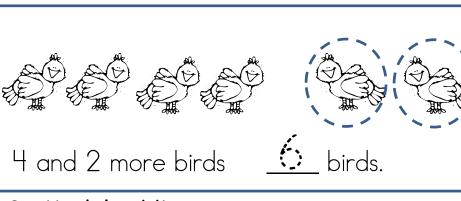
of problems.

If you have any questions, please feel free to call or email.

Your child will learn to read the "+" symbol as "and," "plus" or "add."

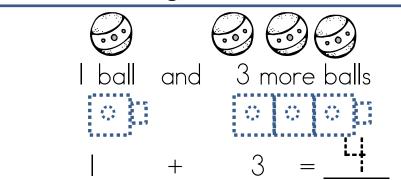
The "=" symbol is read as "the same as," and "equals."

1. Use pictures to add to.



Ch.1

2. Model adding to.



3. Model putting together.

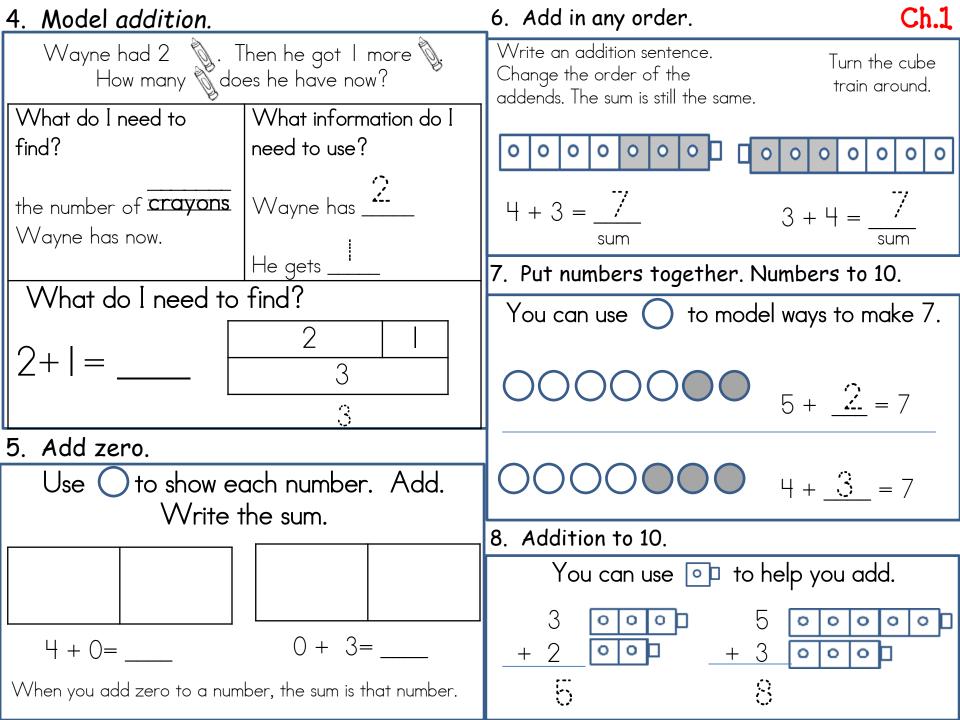
There are 3 brown cats.

Use O to add two groups. Put the groups together to find how many.

There is I white cat.

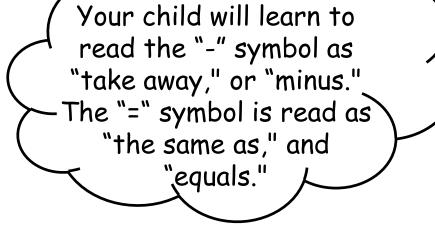
How many cats are there?

3+ | =

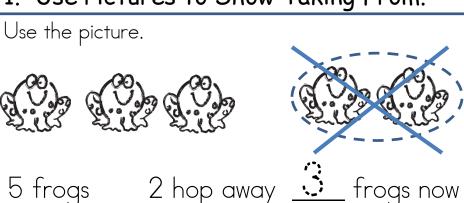


Here are the strategies for mastering the unit "Subtraction Concepts." Hopefully these examples will help you to understand what your student will be asked to do on their homework assignments.

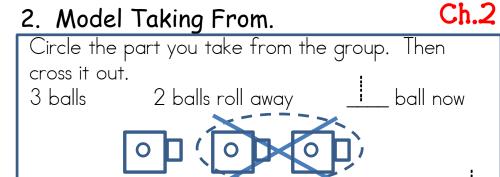
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# 1. Use Pictures to Show Taking From.

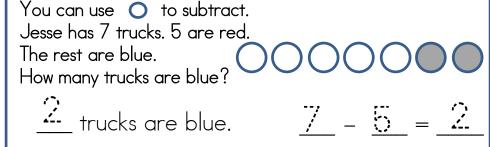


# 2. Model Taking From.





## 3. Model Taking Apart.

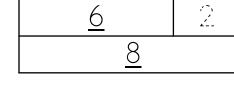


### 4. Model Subtraction.

There were 8 bugs on a leaf. 6 bugs flew away. How many bugs are on the leaf now? What do I need to find? What information do I need to\_use? bugs on a leaf how many crayons

What do I need to find?

are on the leaf now.



<u>(:</u> bugs flew away

### compare. When you subtract zero When you subtract a You can subtract to compare groups. from a number, the number from itself, the difference is the number. difference is zero. 6 - 5=\_ There is I more ... There is I fewer $\bowtie$ . than there are $Q^{n}$ . than there are $\approx$ . No ( ) are crossed out. All $\bigcirc$ are crossed out. 6. Subtract to compare. 5 - 0= 5 - 5= \_\_\_\_\_\_ You can use on to show the bar model. 8. Take apart numbers. 0 0 [ You can use $\bigcirc$ to take apart 5. Circle the part you take away. Joseph has 5 books. Then cross it out. Mark has 3 books. How many more books does Joseph have than Mark?

7. Subtract all or zero.

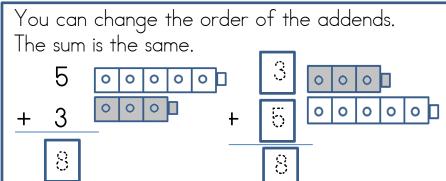
5. Use pictures and subtraction to

Ch.2

Here are the strategies for mastering the unit "Addition Strategies." Hopefully these examples will help you to understand what your student will be asked to do on their homework assignments.

If you have any questions, please feel free to call or email.

# 1. Add in any order.



### 2. Count on.

You can count on to find 5 + 3. Start with the greater addend. Then count on. Write the sum.

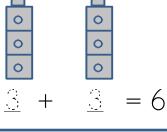
To add 3, count on. VVrite the sum.

To add 3, count on 3

$$\underline{6}$$
 $\underline{7}$ 
 $\underline{8}$ 
 $5+3=\underline{8}$ 

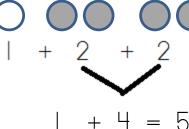
# 3. Add doubles.

The addends are the same in a doubles fact.



# 4. Use doubles to add. (Doubles +1)

Use a doubles fact to solve 3 + 2. Break apart 3 into 1+2.



So, 3 + 2 = 5

THINK:

2+2=4

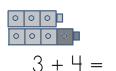
more than 4 is 5.

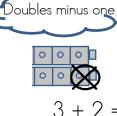
Ch.3

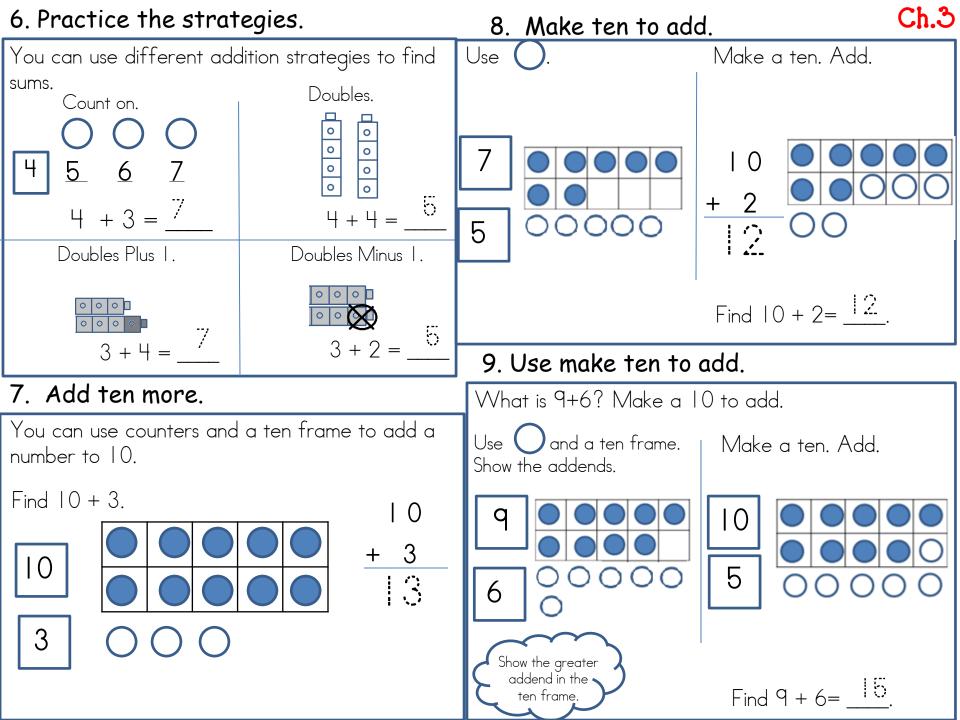
# Use doubles +1 and doubles -1.

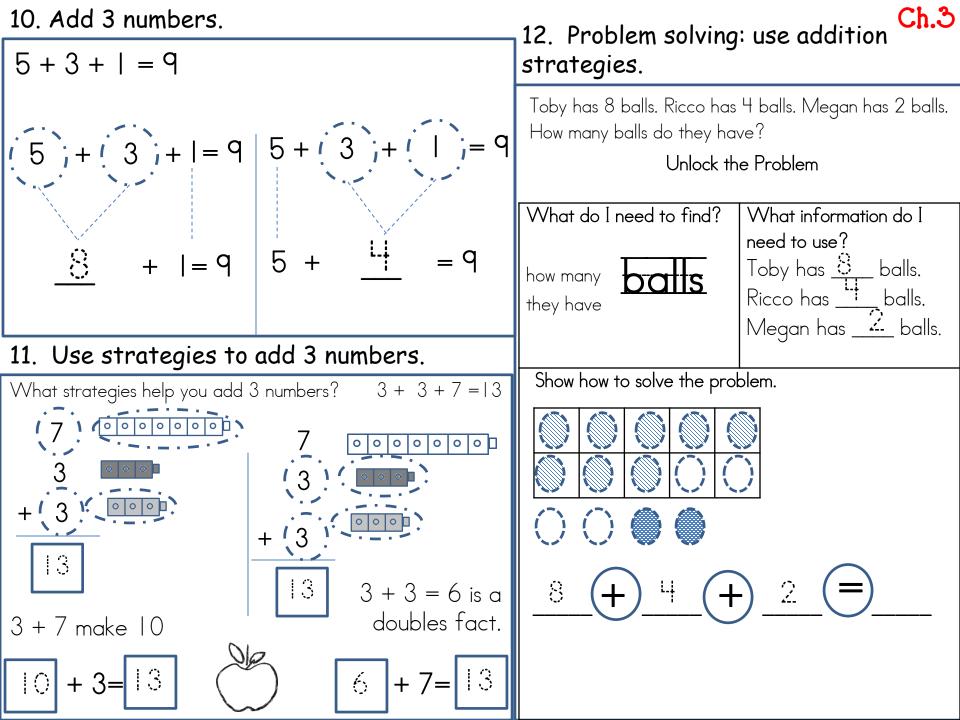
You can use doubles plus one facts and doubles minus one to add. Use doubles fact 3 + 3 = 6

Doubles plus one









Ch.4 3. Use think addition to subtract. Dear Parents: Here are the strategies for mastering the unit Think "Subtraction Strategies." Hopefully these examples will help you to understand what your student will be asked to do on their homework assignments. If you have any questions, please feel free to call or email. 1. Count back. 12 - 7 = '? Count back to subtract. Use 8 🔘 . Count back 3. 4. Use ten to subtract. This shows counting back from 8 to 3. Find 14-7. Start with 7 cubes. 0000000 Make a 10. 00000000000 - 3 = <sup>€</sup> Add cubes to make 14. 2. Think addition to subtract. 0000000000 What is 5 - 3? 0000 Count what you added.

You added <u>;</u>

5. Break apart to subtract.

Step

Step 2

Find 13 - 5?

Start with 13. Make a ten.

Take \_\_\_\_\_ from 13.

Then take \_\_\_\_ more.



So, 
$$13 - 5 = 8$$
.

6. Problem Solving:

Use subtraction strategies.

Emma had 15 treats. She gives some of them away. She has 7 left. How many treats did she give away?

Unlock the Problem

Ch.4

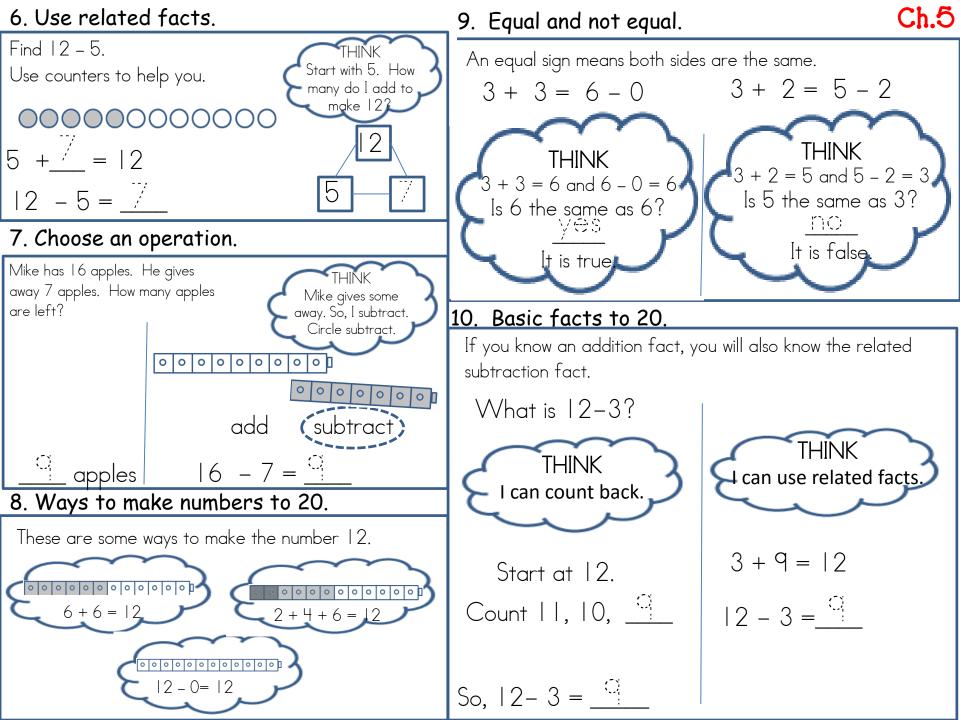
What do I need to find? What information do I need to use? Emma had 5 treats. Emma has \_\_\_\_\_\_ treats Emma gave away. left.

Show how to solve the problem.

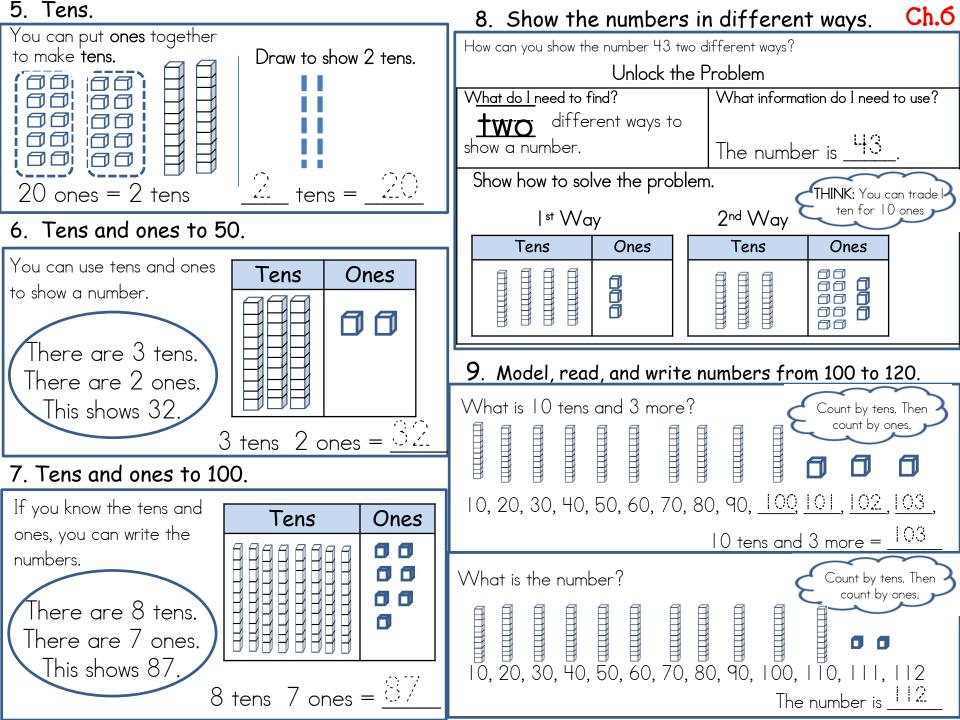


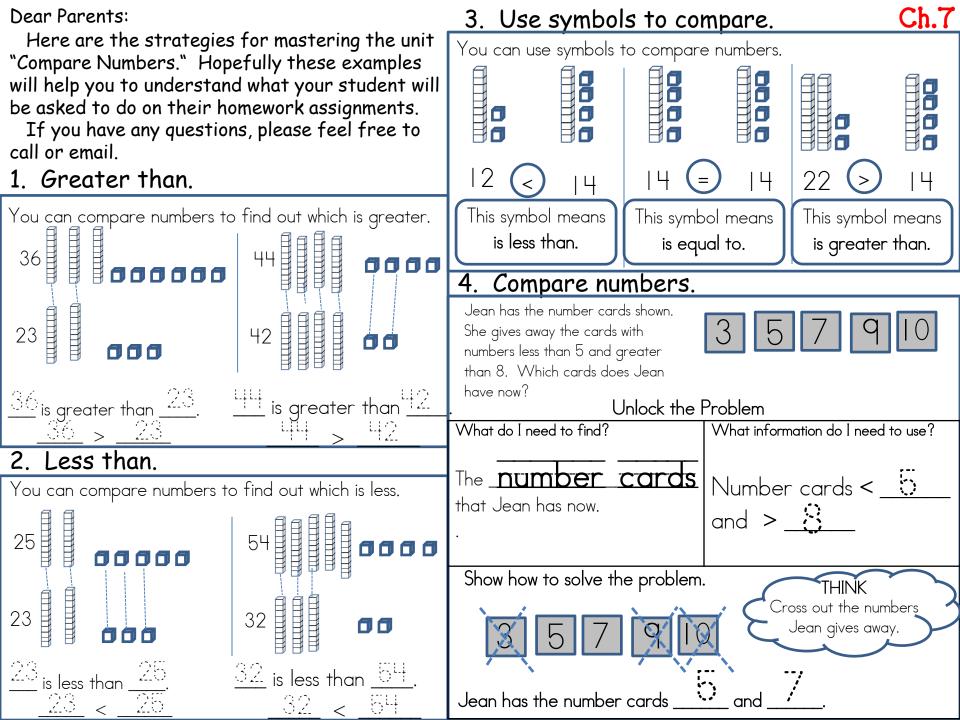
Emma gave away <u>8</u> treats.

Ch.5 3. Identify related facts. Dear Parents: If you know an addition fact, you will also know the related Here are the strategies for mastering the unit subtraction fact. "Addition and Subtraction Relationships." Both facts use 2, 3 and 5. They are Hopefully these examples will help you to related facts. understand what your student will be asked to do on their homework assignments. If you have any questions, please feel free to call or email. Problem Solving: add or subtract. 4. Use addition to check subtraction. There are 12 frogs in the pond. Some frogs hop away. There are 8 frogs still in the pond. How many frogs hopped away? You can use addition to check Unlock the Problem subtraction. Add to check What do I need to find? What information do I need to use? back together You start with 6. You end with 6  $\perp 2$  frogs in the pond. Take apart to subtract. How many </u> frogs still in the 00000 hop away. pond. + Show how to solve the problem. 8 frogs still in the pond. 1-4 5. Finding missing numbers. (addends) hop away 12 frogs Add or subtract to find the missing numbers. 2. Record related facts. (Fact Family) 00000000000 Use the numbers to write four related facts. THINK start with 7. I keep adding cubes until there are I 20000 The missing number is 4. A related fact is THINK 11-7=4 Each number is in all four facts.

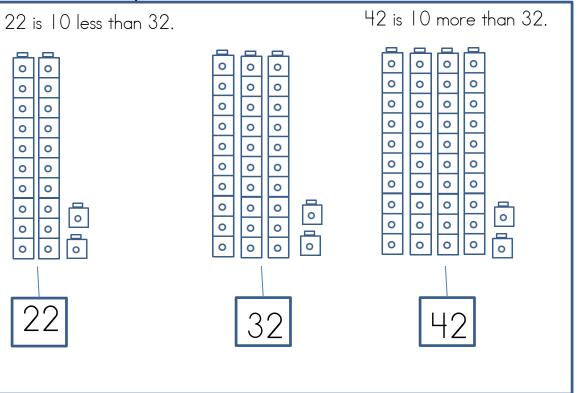


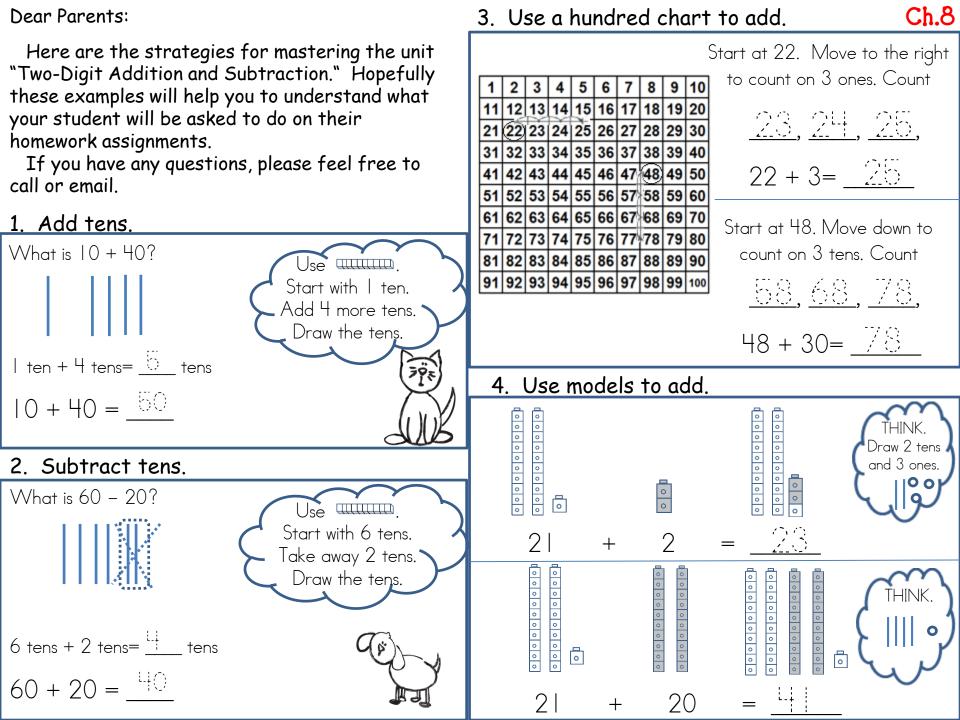
2. Count by tens to 120. Ch.6 Dear Parents: Use the Counting Here are the strategies for mastering Chart. Count the unit "Count and Model Numbers." forward by tens. Start on 3. Hopefully these examples will help you to understand what your student will be 13, 23, 33, 43, 53, asked to do on their homework assignments. 63, <u>73, 83, 93,</u> If you have any questions, please feel free to call or email. Understand ten and ones. 1. Count by ones to 120. You can use 📭 to show ten and some ones. Count forward. Write the numbers. You can write ten and ones in different ways. ten ones find 107 on the chart. 108 comes next. 4. Make ten and ones. You can make I ten with 10 🖭 . thirteen <u>3</u> ones ten ten ones

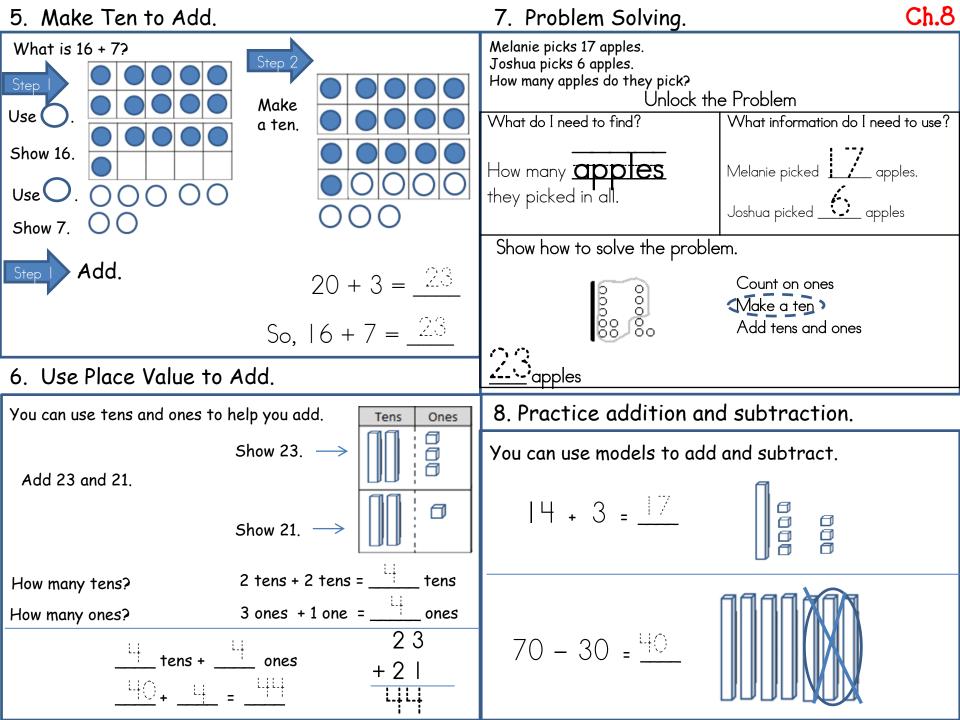




5. Ten less, ten more. Ch.7



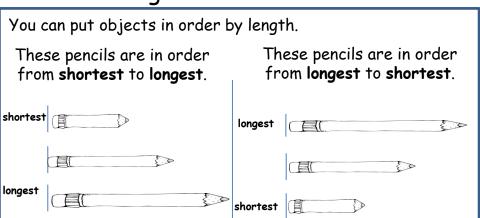




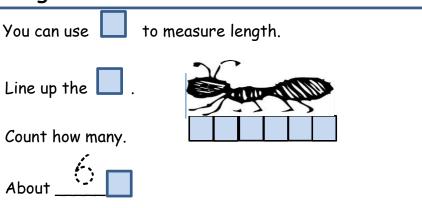
Here are the strategies for mastering the unit "Measurement." Hopefully these examples will help you to understand what your student will be asked to do on their homework assignments.

If you have any questions, please feel free to call or email.

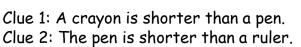




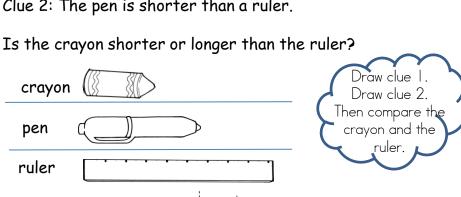
3. Use nonstandard units to measure length.



# 2. Indirect measurement.

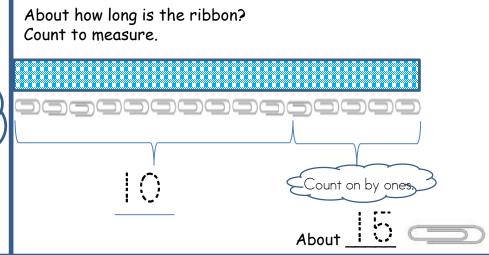


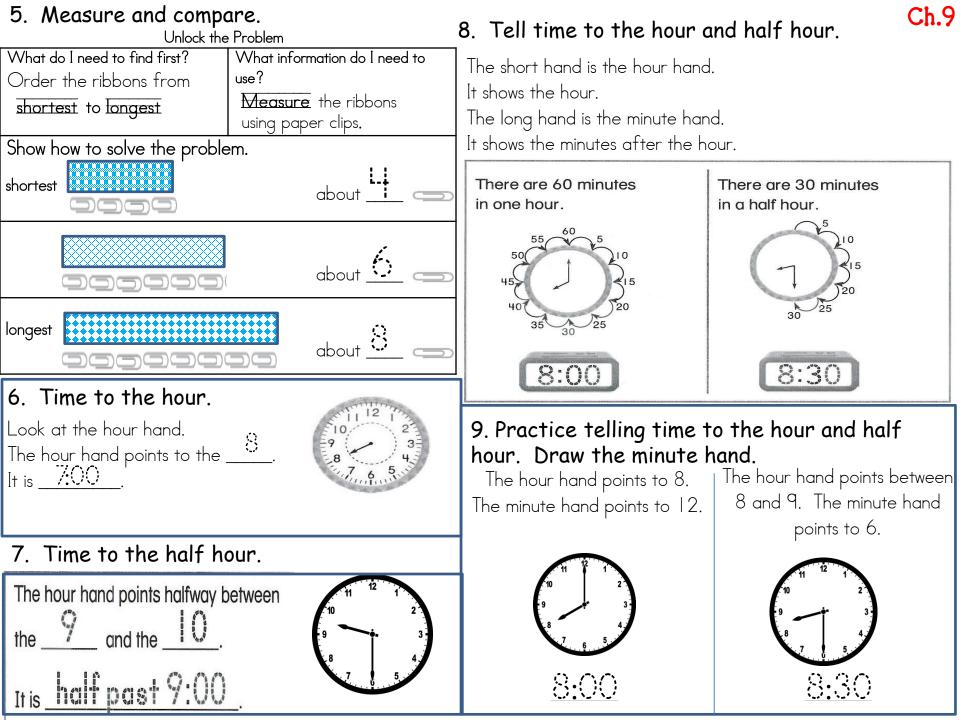
So, the crayon is



than the ruler.

4. Use a nonstandard measuring tool.





Ch.10

Here are the strategies for mastering the unit "Represent Data." Hopefully these examples will help you to understand what your student will be asked to do on their homework assignments.

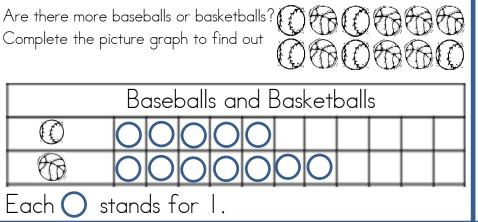
If you have any questions, please feel free to call or email.

1. Read pictographs and answer questions.

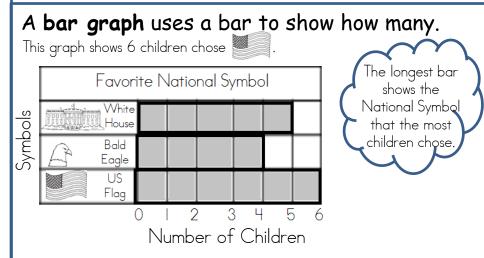
A picture graph uses pictures to show how many. Count the in each row. Favorite Pie Cherry Pumpkin 🏖 Each T stands for I child. 

There are \_\_\_\_\_ children who chose

# 2. Make pictographs.

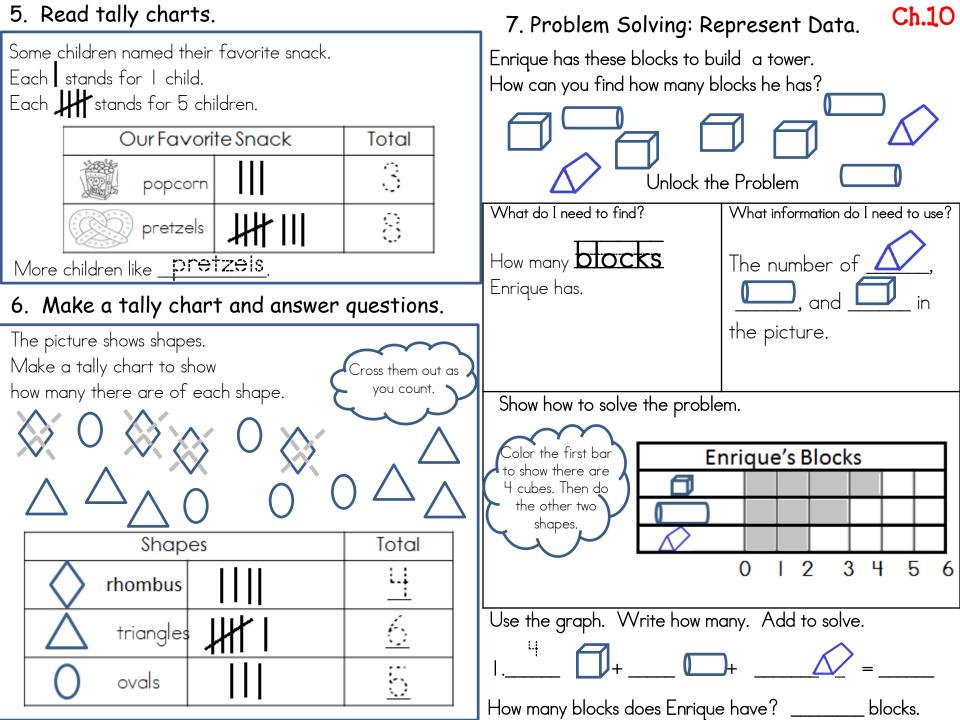


3. Read a bar graph and answer questions.



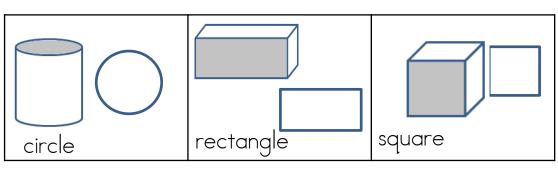
4. Make a bar graph and answer questions.

Make a bar graph to show the fish in the picture. Fish in the Tank Fish of /inds Cross out each fish as you add Number of Fish it to the graph.



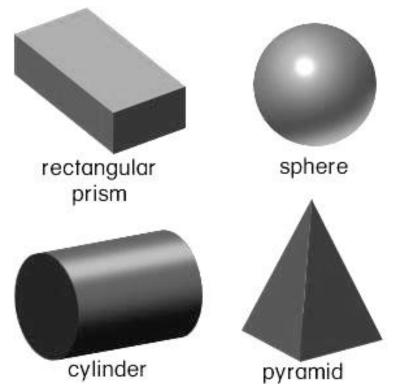
3. Make new three-dimensional shapes. Ch.11 Dear Parents: Copy the shape. Build a shape. Here are the strategies for mastering the unit "Three-Dimensional Shapes." Hopefully these examples will help you to understand what your student will be asked to do on their homework Circle a new shape you can make. Combine them. assignments. If you have any questions, please feel free to ou cannot make this call or email. new shape. The first shapes did not stay the 1. Three-dimensional shapes. curved surfaces curved and flat surfaces 4. Take apart three-dimensional shapes. He built a tower. Pedro has Which shapes did he use to build the tower? cylinder sphere cone flat surfaces Unlock the Problem What do I need to find? What information do I need to use? Pedro has these rectangular prism Which shapes cube shapes Pedro used to build his tower. 2. Combine three-dimensional shapes. Put shapes together to make a new shape. Show how to solve the problem. Find the matching shapes.

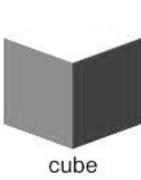
5. Two-dimensional shapes on three-dimensional shapes.



Three-dimensional shapes are also referred to as "3-D Shapes" and "Solid Shapes."

Ch.11



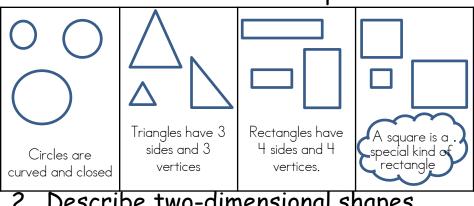


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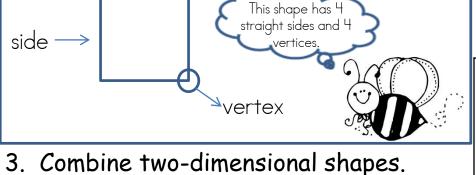
Ch.12

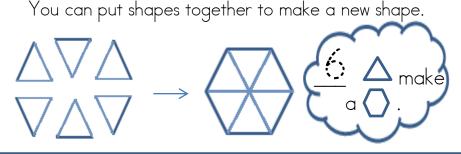
Here are the strategies for mastering the unit "Geometry." Hopefully these examples will help you to understand what your student will be asked to do on their homework assignments. If you have any questions, please feel free to call or email.

1. Sort two-dimensional shapes.

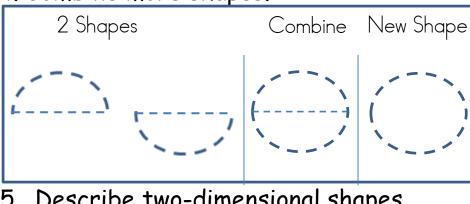


2. Describe two-dimensional shapes.





4. Combine more shapes.



Describe two-dimensional shapes. Juan wants to use  $\bigwedge$  to make a . How many  $\bigwedge$  does

he need? Unlock the Problem What do I need to find?

How Juan can make a usinq

What information do I need to use? Juan uses ,

Show how to solve the problem.



