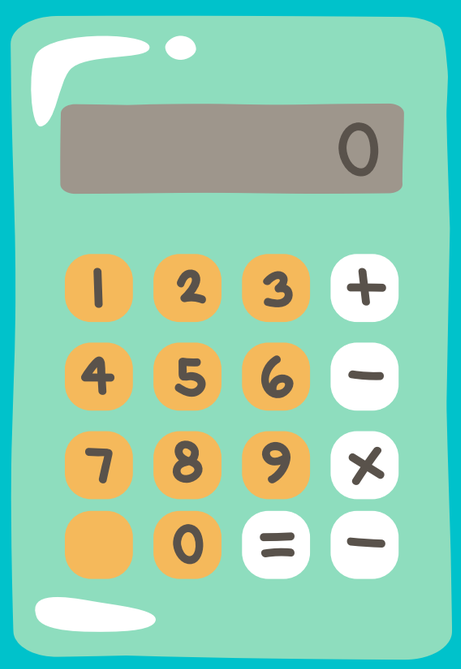
MATH CURRICULUM CONNECTION

KINDERGARTEN UNIT ONE

FAMILY RESOURCE SITE

bitly

WHAT'S ON THE FAMILY RESOURCE SITE?



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PRACTICE ON IREADY

- Interactive tutorials
- Interactive practice
- Learning games

WHAT YOUR STUDENT SHOULD KNOW

Numbers 0-10
Identifying shapes

MATH CONVERSATIONS AT HOME

1. What do you count when you wash clothes at home?
2. What things outside can you count?
3. Do you have 5 of the same snack in the kitchen?
4. What do you buy more than 1 of at the supermarket?
5. If we put 3 beans on one side and 1 on the other side, how many beans do we have?

IREADY REMINDERS

Did you know?

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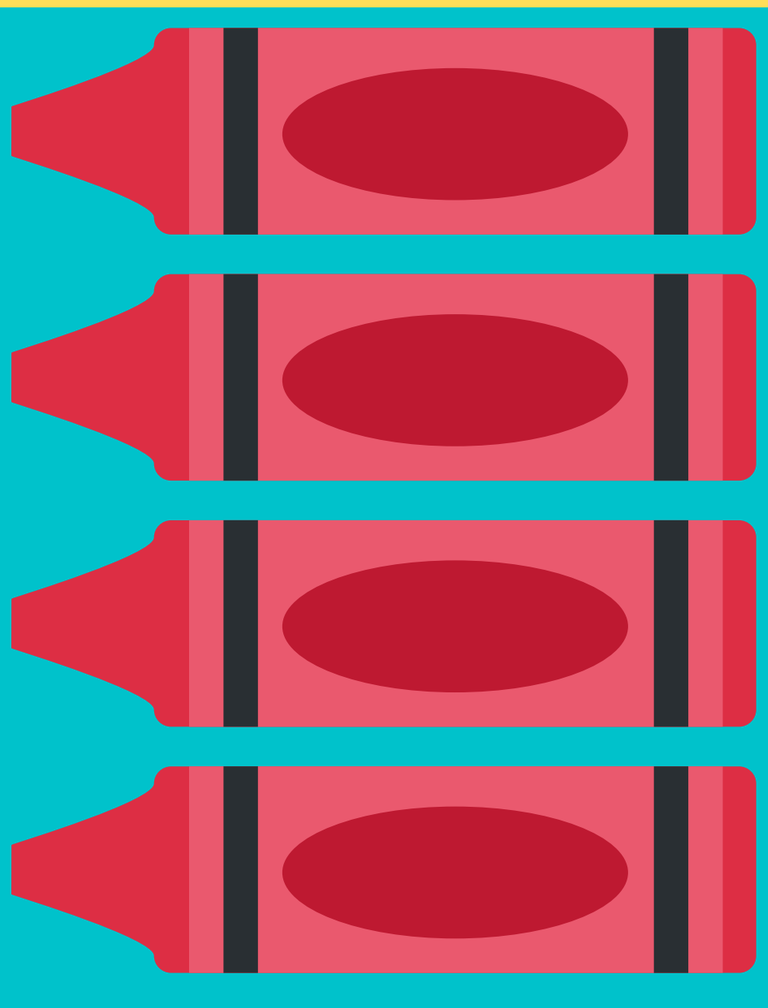
EDISON ELEMENTARY, A COMMUNITY SCHOOL

MATH CURRICULUM CONNECTION

KINDERGARTEN UNIT ONE

EXAMPLE PROBLEMS

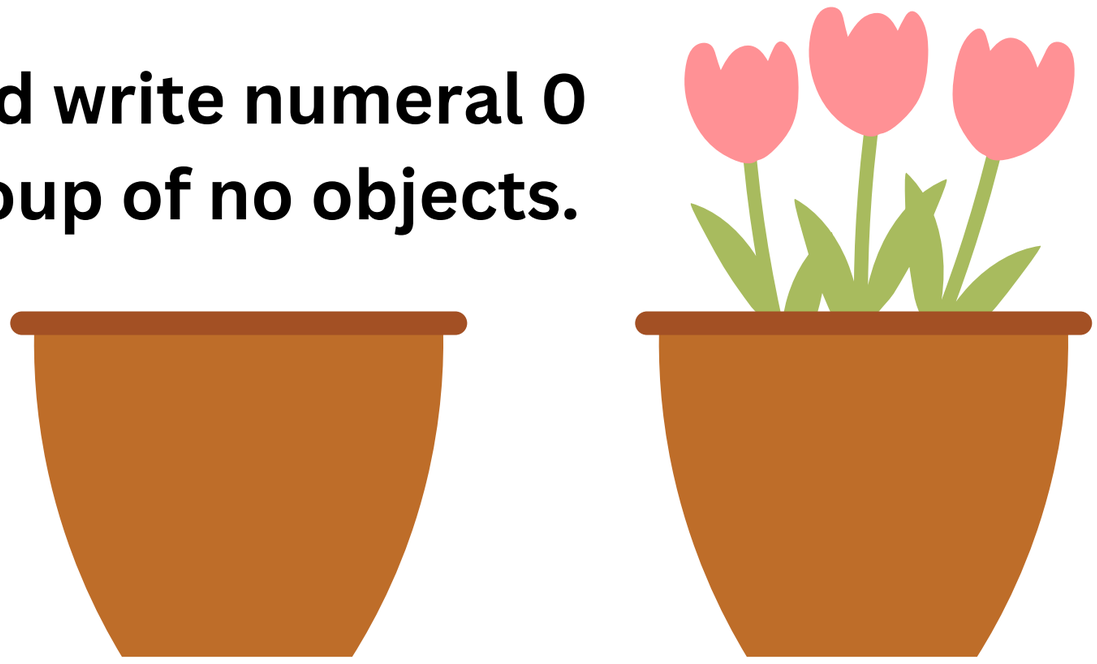


Exploring Counting

By counting objects in groups of 1 to 4, your child will develop the understanding that when counting a group of objects, each number is associated with one object and the last number counted tells the total amount in the group

Your child will be learning to recognize and write numeral 0 and understand that zero represents a group of no objects.

For example, when shown a flowerpot with 3 flowers and a flowerpot with no flowers, your child will identify the flowerpot with no flowers as showing 0 flowers



MATH CURRICULUM CONNECTION

KINDERGARTEN UNIT TWO

FAMILY RESOURCE SITE

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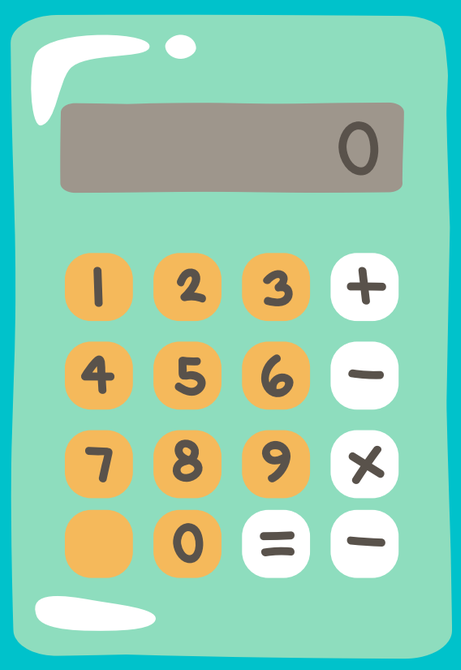

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MATH CONVERSATIONS AT HOME

1. What objects in the kitchen can we count to 10?
2. What objects can we use to count?
3. What happens to the total number of chairs in the kitchen if we add 1 more?
4. If you put 4 buttons in the top row of the egg carton and 5 in the bottom row, what number do you make?

WHAT YOUR STUDENT SHOULD KNOW

Numbers 0-10
Identifying shapes

IREADY REMINDERS

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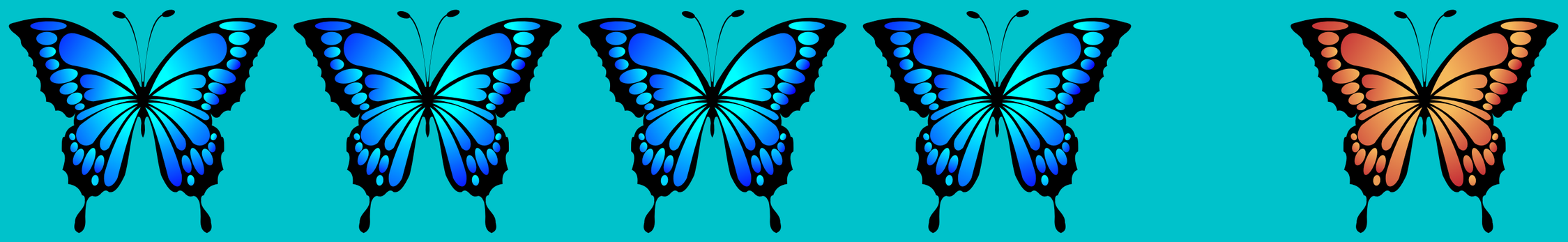
MATH CURRICULUM CONNECTION

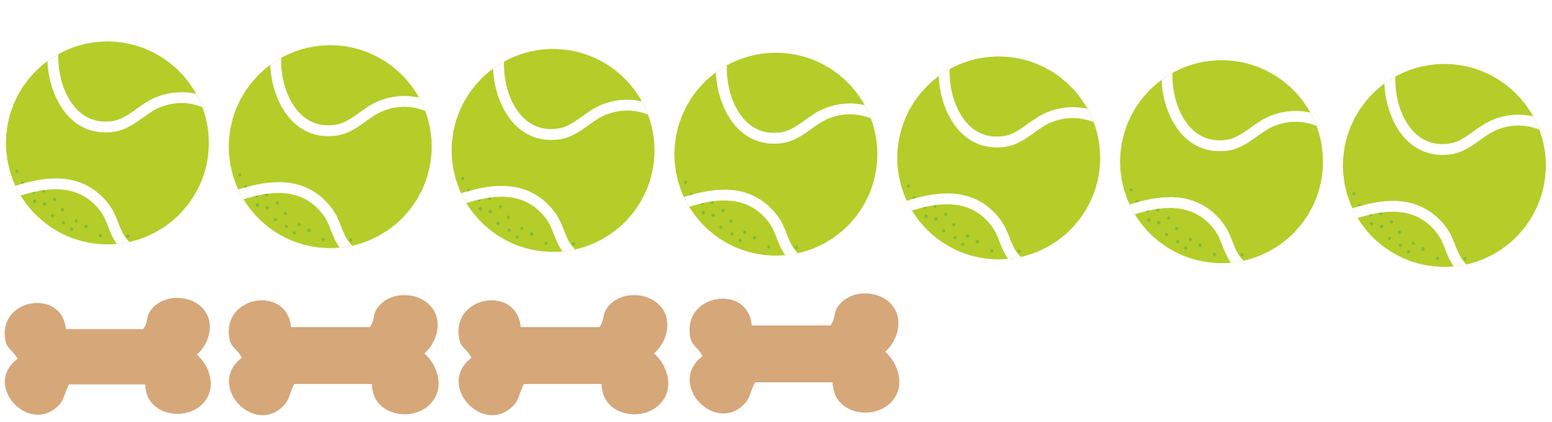
KINDERGARTEN UNIT TWO

EXAMPLE PROBLEMS



The concept of 1 more builds on the understanding and skill of counting numbers.

Your child will begin by counting a group of objects, add 1 more object to the group, and then count again to find the new total.



When comparing objects to see which has more, you can line them up in two rows like this!

As your child begins to think more abstractly, they will start to recognize that 7 is more than 4, no matter what objects are being counted or how they are arranged.

MATH CURRICULUM CONNECTION

KINDERGARTEN UNIT THREE

FAMILY RESOURCE SITE

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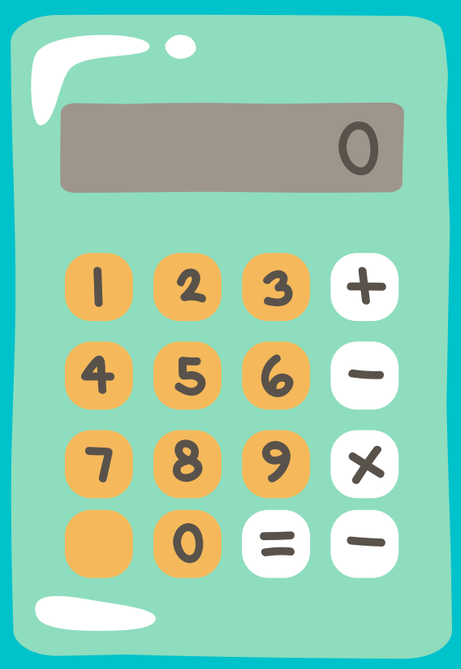
WHAT'S ON THE FAMILY RESOURCE SITE?



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WHAT YOUR STUDENT SHOULD KNOW

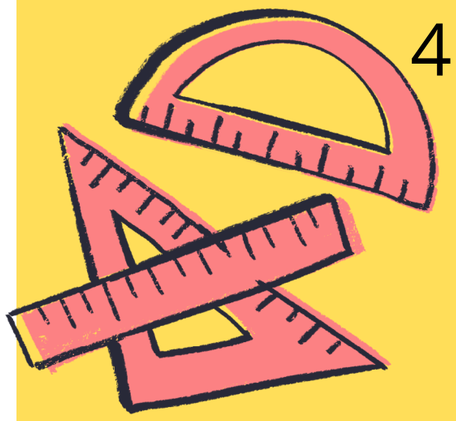
Numbers 0-10
Identifying shapes

MATH CONVERSATIONS AT HOME

1. What shapes do you find the most in our home?
2. Where do you see the shape?
3. What shapes do you see in the pantry?
4. Can you make your favorite shape from other shapes?

IREADY REMINDERS

Did you know?



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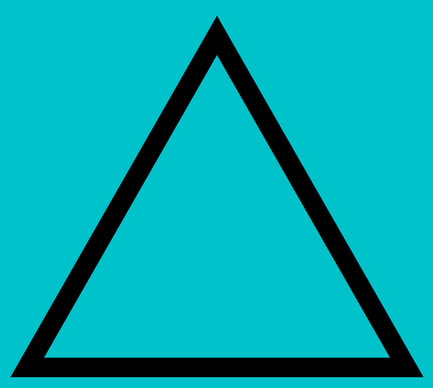
MATH CURRICULUM CONNECTION

KINDERGARTEN UNIT THREE

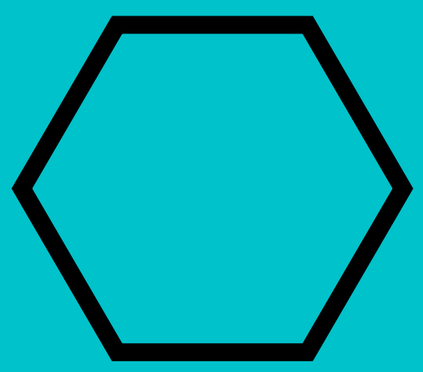
EXAMPLE PROBLEMS

Learning the names of shapes!

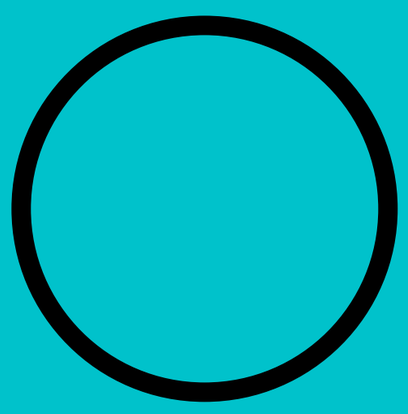
Triangle



Hexagon

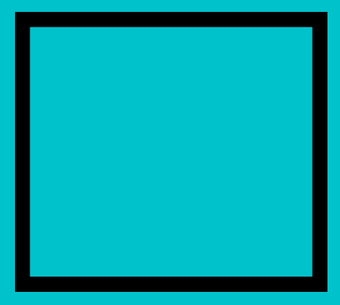


Circle



Rectangle

Square



Can your child identify the corner and side of each shape?

Building shapes!

Two squares can be put together to form a rectangle

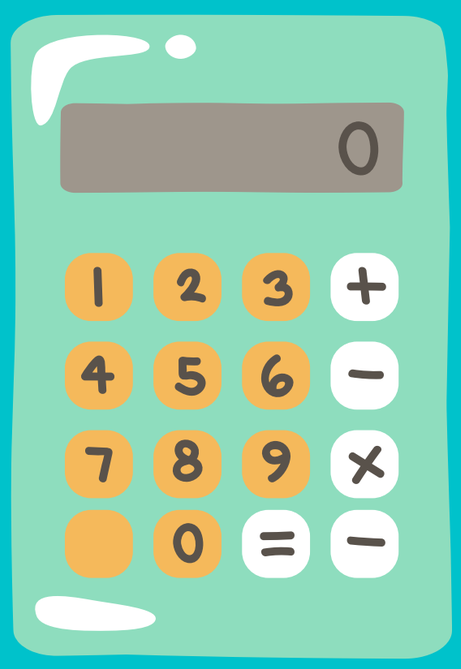
Two triangles can be put together to form a square

MATH CURRICULUM CONNECTION

KINDERGARTEN UNIT FOUR

FAMILY RESOURCE SITE

WHAT'S ON THE FAMILY RESOURCE SITE?



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WHAT YOUR STUDENT SHOULD KNOW

Adding and subtracting within 10

Examples:

10-2 =8

7-3 = 4

MATH CONVERSATIONS AT HOME

1. What do you add when you go to the supermarket?
2. What do you add when when you get the check at the restaurant?
3. Do you have the same number of buttons as the number below them?
4. What does the plus sign mean?
5. What does the minus sign mean?

IREADY REMINDERS

Did you know?

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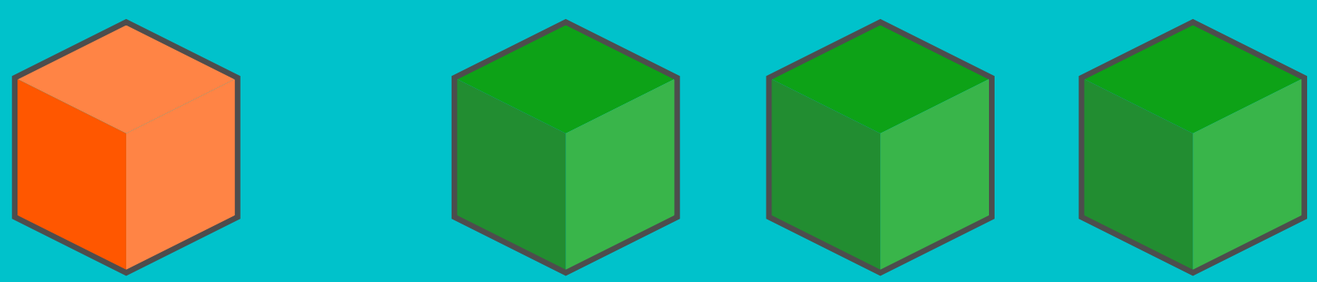
MATH CURRICULUM CONNECTION

KINDERGARTEN UNIT FOUR

EXAMPLE PROBLEMS



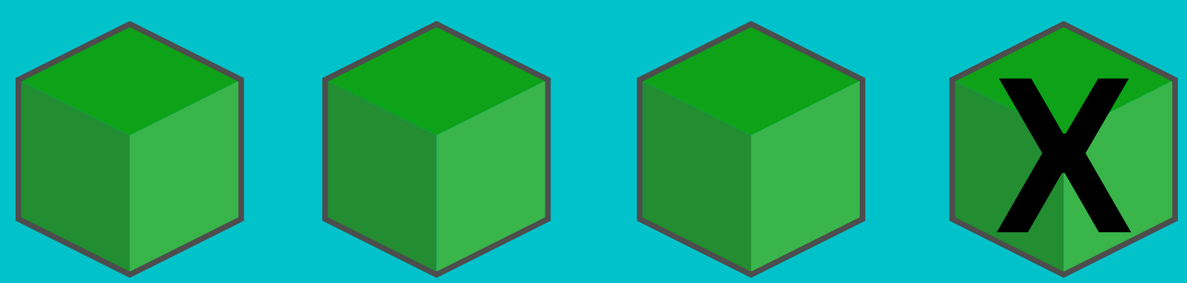
1 + 3 = 4

Plus sign

Equal sign

Learning to add

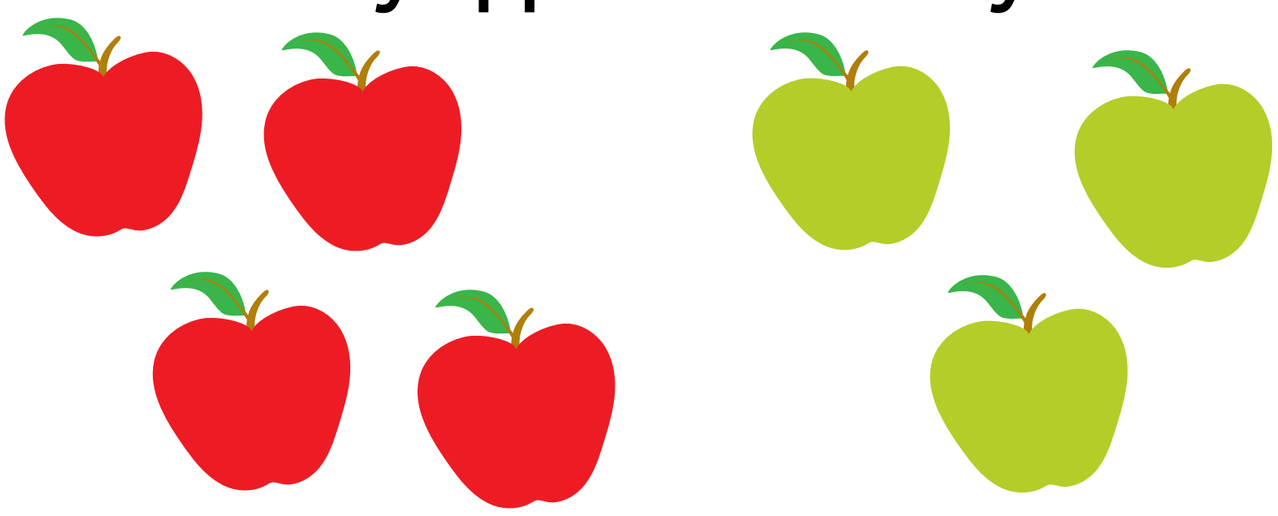
Learning to subtract



4 - 1 = 3

Start with 4, take away 1.
There are three left over.

Brody finds 4 apples. He then finds 3 more.
How many apples has Brody found in all?



Your child will write an equation to match the visual example: 4 + 3 = 7

MATH CURRICULUM CONNECTION

KINDERGARTEN UNIT FIVE

FAMILY RESOURCE SITE

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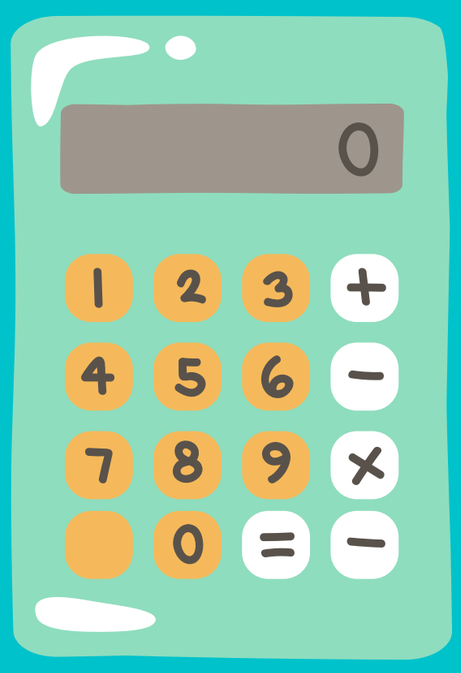

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WHAT YOUR STUDENT SHOULD KNOW

Adding and subtracting within 10

Examples:

10-2 =8

7-3 = 4

MATH CONVERSATIONS AT HOME

1. Where can we find teen numbers in our neighborhood?
2. Do we know any teenagers?
3. Can you make a group of 10?
4. Where can we find teen numbers around our house or neighborhood?
5. How many steps did you take?

IREADY REMINDERS

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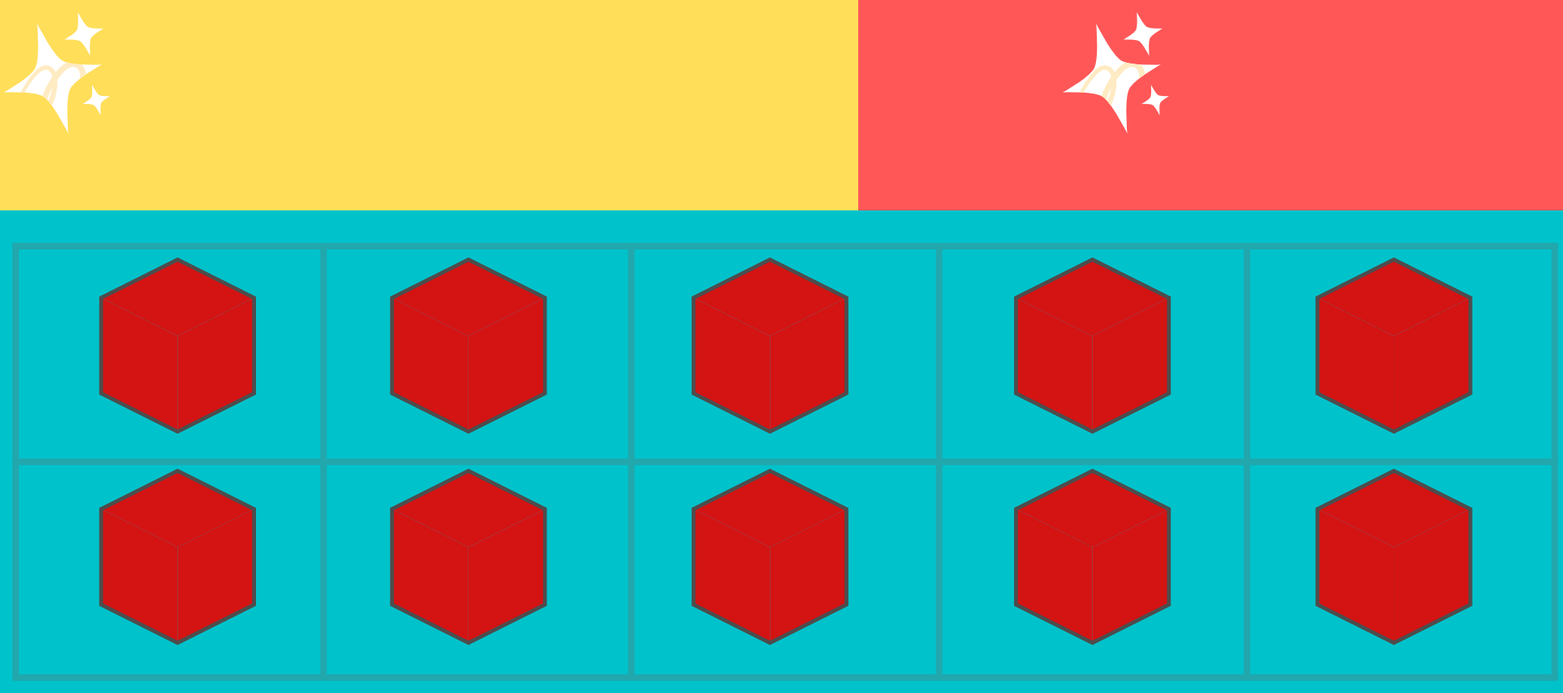
MATH CURRICULUM CONNECTION

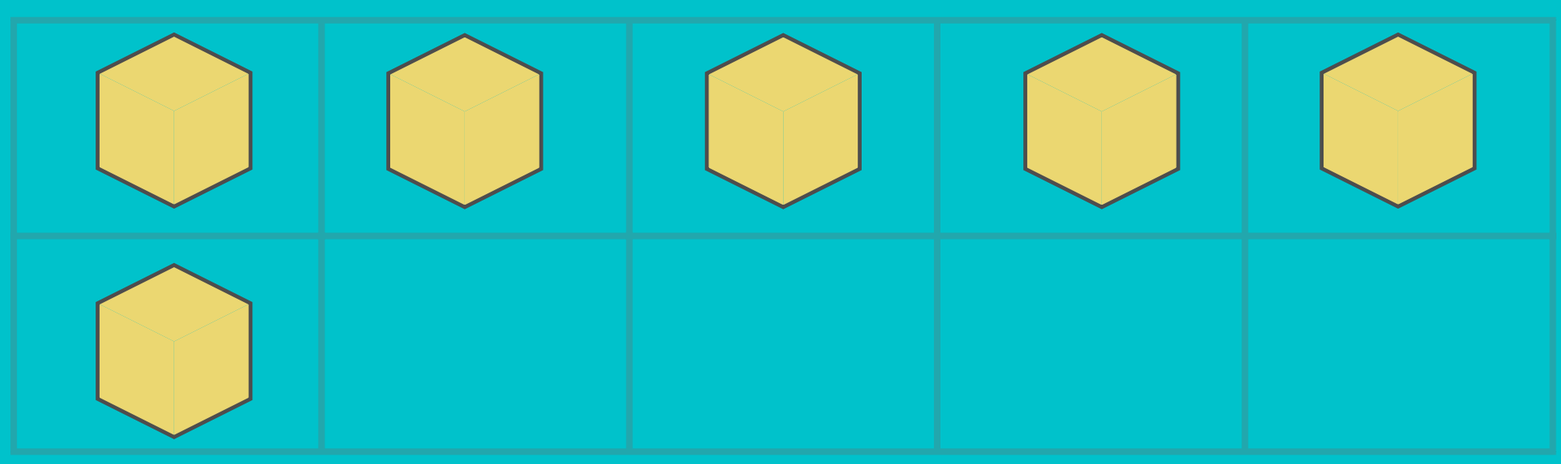
KINDERGARTEN UNIT FIVE

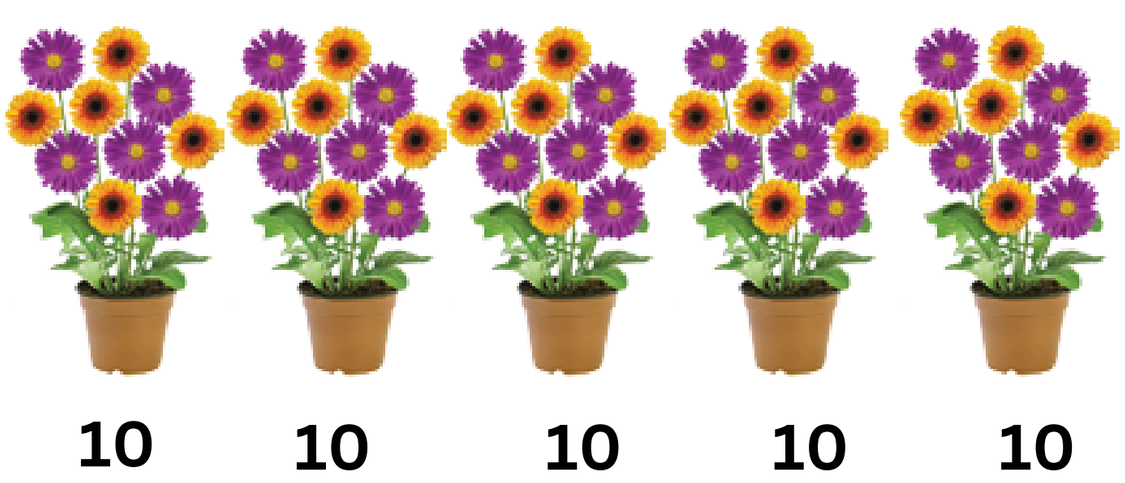
EXAMPLE PROBLEMS



In class your child is using cubes to explore teen numbers

This is one way you can show your child 16 by using connecting cubes





Each pot has 10 flowers. You can count by tens to find there are 50 flowers in all.

MATH CURRICULUM CONNECTION

KINDERGARTEN UNIT SIX

FAMILY RESOURCE SITE

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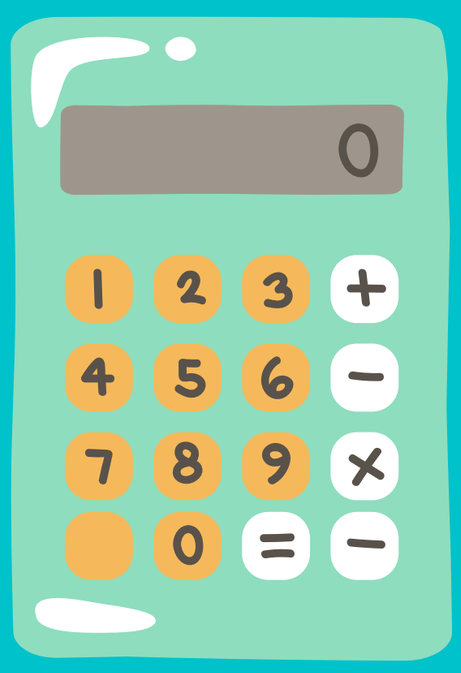

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WHAT YOUR STUDENT SHOULD KNOW

Adding and subtracting within 10

Examples:

10-2 =8

7-3 = 4

MATH CONVERSATIONS AT HOME

1. Which object is longer?
2. Which object is shorter?
3. Which object is heavier?
4. Which object is lighter?

IREADY REMINDERS

Did you know?

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MATH CURRICULUM CONNECTION

KINDERGARTEN UNIT SIX

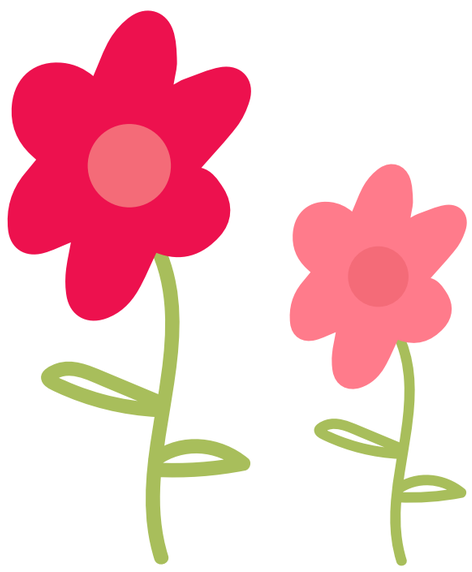
EXAMPLE PROBLEMS

Comparing two objects by weight involves finding which object is heavier or lighter

Even if a balloon is larger than a basketball, the balloon will be lighter than the basket ball!

You can compare two objects by length or by height to find which object is longer, taller, or shorter.

The pink flower is shorter than the red flower



The blue ribbon is longer than the purple ribbon

MATH CURRICULUM CONNECTION

FIRST GRADE UNIT ONE

FAMILY RESOURCE SITE

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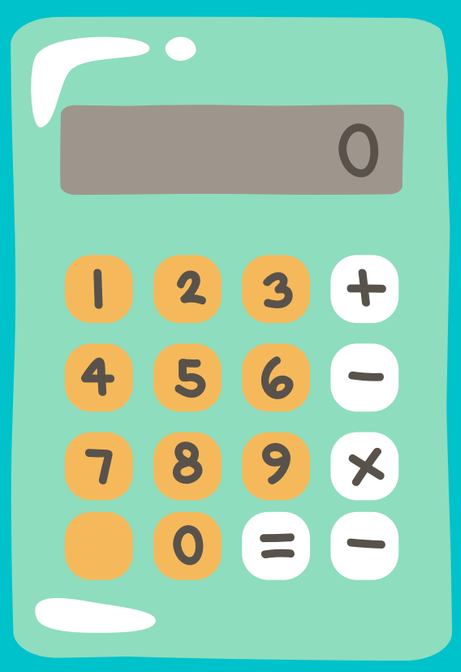
WHAT'S ON THE FAMILY RESOURCE SITE?



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WHAT YOUR STUDENT SHOULD KNOW

"Partner numbers" for 10

Examples:

1 and 9
2 and 8
3 and 7
4 and 6
5 and 5

MATH CONVERSATIONS AT HOME

1. How many plates do we usually put out for dinner?
2. Do the eggs in the carton show a double?
3. How can we show the number 6 with our fingers?
4. How many more do we need to make 7?
5. What are different ways to make 10?

IREADY REMINDERS

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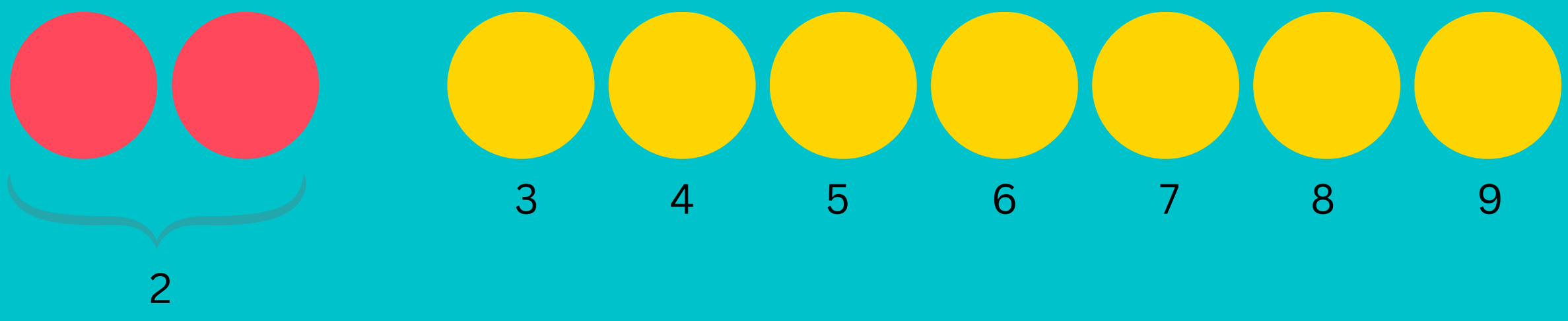
MATH CURRICULUM CONNECTION

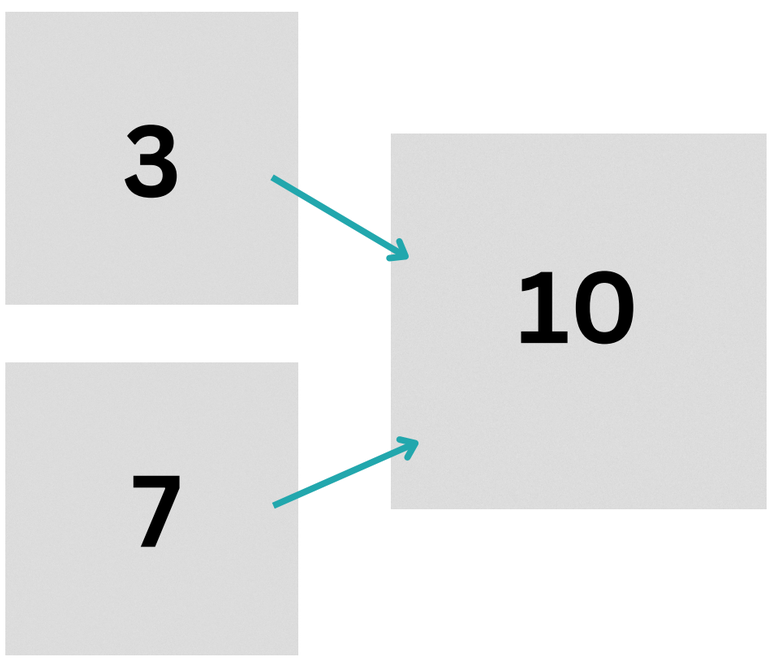
FIRST GRADE UNIT ONE

EXAMPLE PROBLEMS

To find 2 + 7 start with 2 and count on 7



A number bond is a way to show partners for 10



3 + 7 = 10

MATH CURRICULUM CONNECTION

FIRST GRADE UNIT TWO

FAMILY RESOURCE SITE

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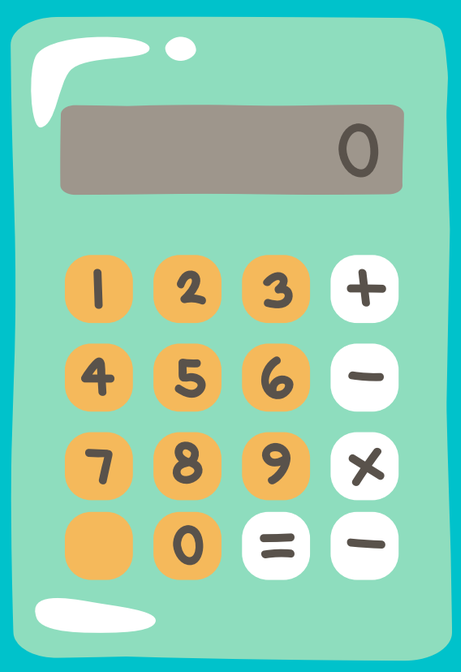

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WHAT YOUR STUDENT SHOULD KNOW

"Partner numbers" for 10

Examples:

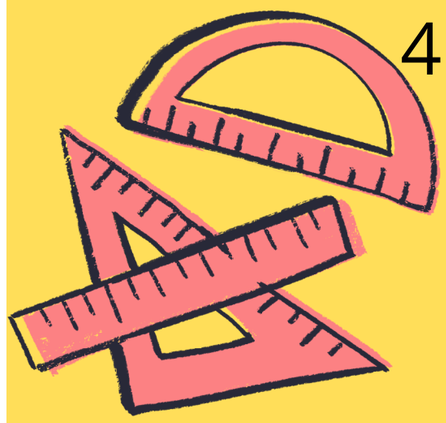
1 and 9
2 and 8
3 and 7
4 and 6
5 and 5

MATH CONVERSATIONS AT HOME

1. Do any family members have ages that are teen numbers?
2. Why are we adding to 10 first?
3. What is the total?
4. Which two numbers did you add first?
5. How can we use our fingers to show a teen number?

IREADY REMINDERS

Did you know?



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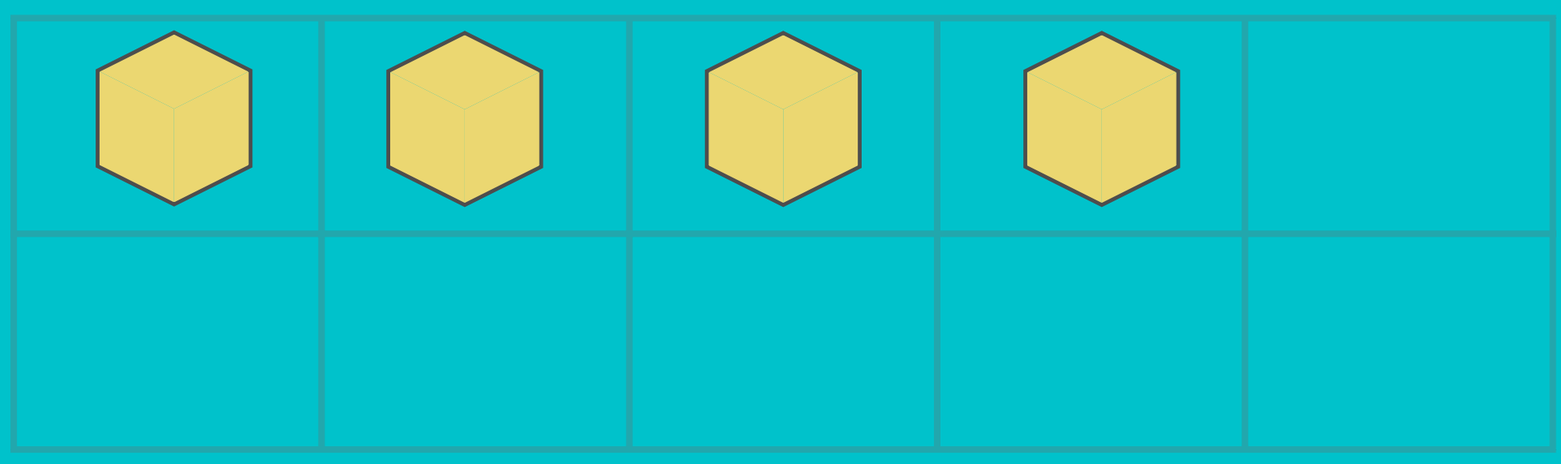
MATH CURRICULUM CONNECTION

FIRST GRADE UNIT TWO

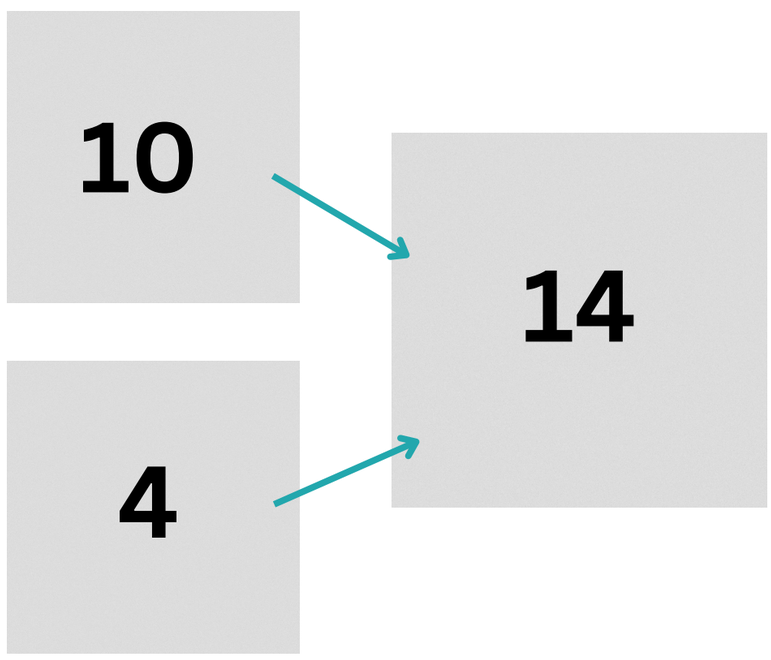
EXAMPLE PROBLEMS

In class your child is using cubes to explore teen numbers

This is one way you can show your child 14 by using connecting cubes



Your child will also use number bonds to show teen numbers



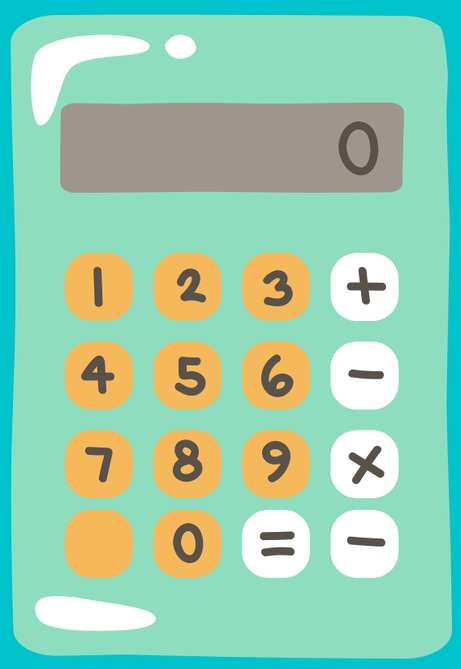
10 + 4 = 14

MATH CURRICULUM CONNECTION

FIRST GRADE UNIT THREE

FAMILY RESOURCE SITE

WHAT'S ON THE FAMILY RESOURCE SITE?



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WHAT YOUR STUDENT SHOULD KNOW

Adding and subtracting within 20

Examples:

4+8=12 **19-7=12**

6+7=13 **18-9=9**

MATH CONVERSATIONS AT HOME

1. How many tens are there?
2. Do you see a pattern?
3. How many groups of 10 can we make?

IREADY REMINDERS

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MATH CURRICULUM CONNECTION

FIRST GRADE UNIT THREE

EXAMPLE PROBLEMS

To find which of two numbers is greater than, or less than, you can compare the tens and ones.

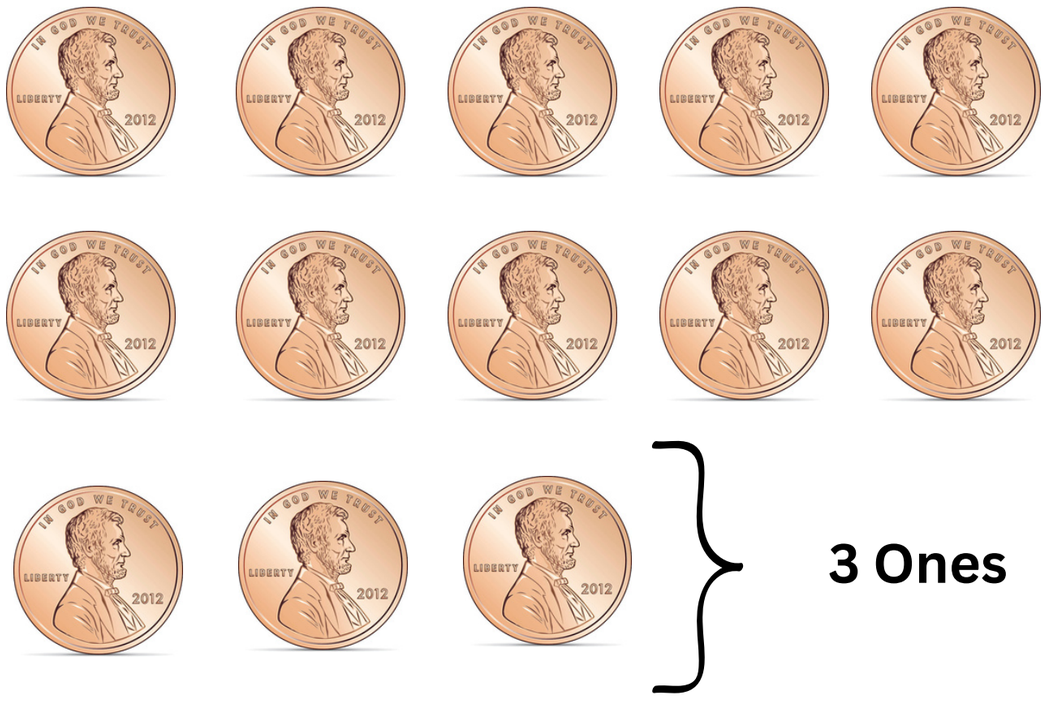
Because tens have a greater value than ones, compare the tens first. If the tens are the same compare the ones.

Place value charts can be used to compare numbers.

Tens	Ones
4	8

Tens	Ones
3	5

Your child is learning to tell time on analog clocks. They will learn that the short hand shows the hour and that the long hand shows the minutes.



10 + 3 = 13

Your child will learn to recognize place value, or the value of a digit based on its position in a number.

They will also learn that two-digit numbers can be broken apart into tens and ones.

MATH CURRICULUM CONNECTION

FIRST GRADE UNIT FOUR

FAMILY RESOURCE SITE

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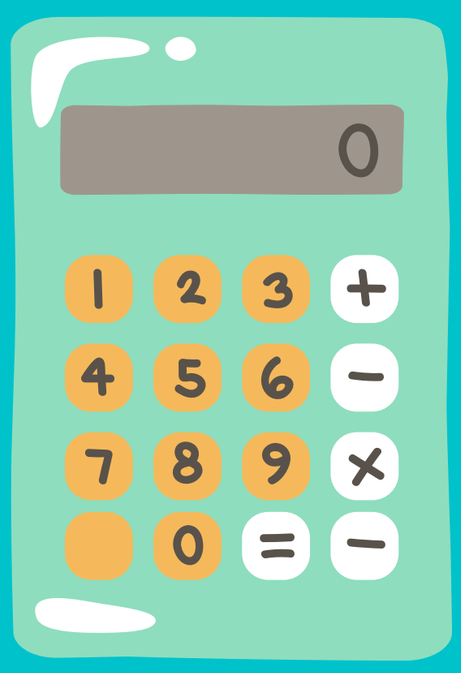

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WHAT YOUR STUDENT SHOULD KNOW

Adding and subtracting within 20

Examples:

4+8=12 **19-7=12**

6+7=13 **18-9=9**

MATH CONVERSATIONS AT HOME

1. How can solving one problem help to solve another?
2. What is 10 more than the number?
3. Are there enough ones to make a 10?
4. How many tens are there?

IREADY REMINDERS

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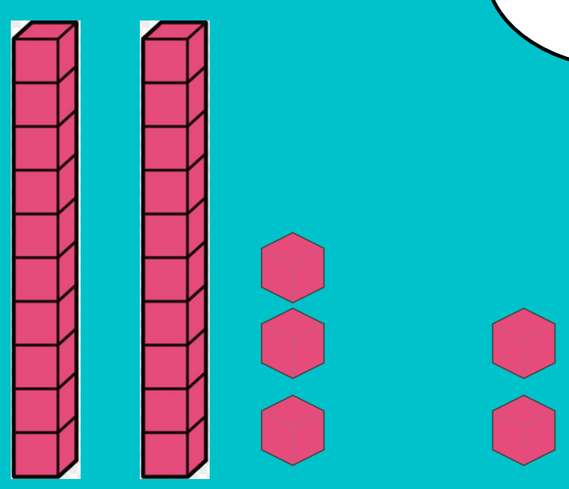
MATH CURRICULUM CONNECTION

FIRST GRADE UNIT FOUR

EXAMPLE PROBLEMS

2 tens 3 ones
+ 2 ones
2 tens 5 ones =
25



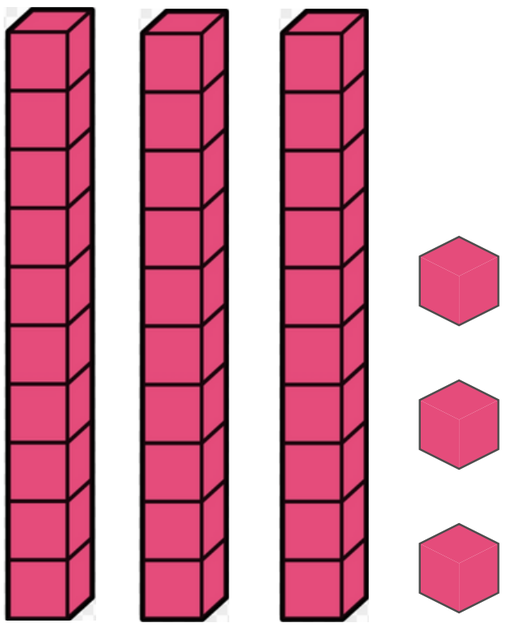
Example: Find 25 + 14

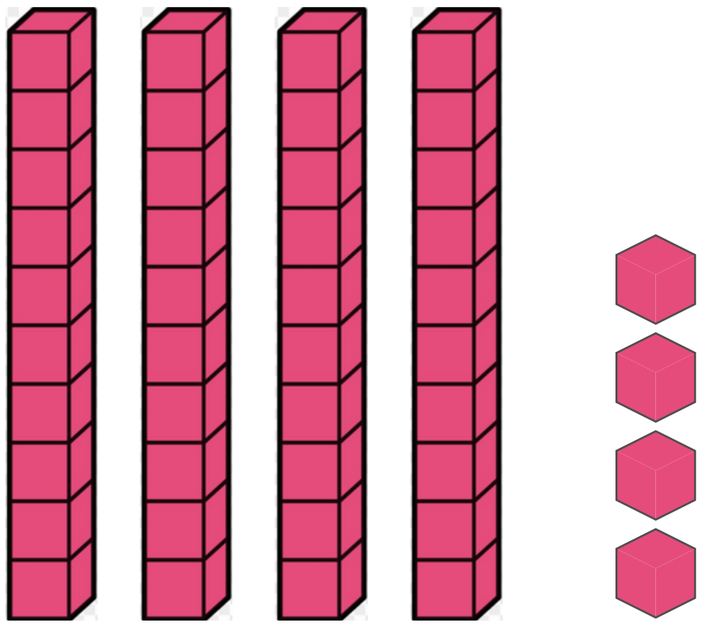
Add the tens

Add the ones

20 + 5
10 + 4
30 + 9 = 39

So, 25 + 14 = 39





When 10 is added to a number, the tens digit increases by one

When 10 is subtracted from a number, the tens digit decrease by one

3 tens 3 ones

4 tens 4 ones

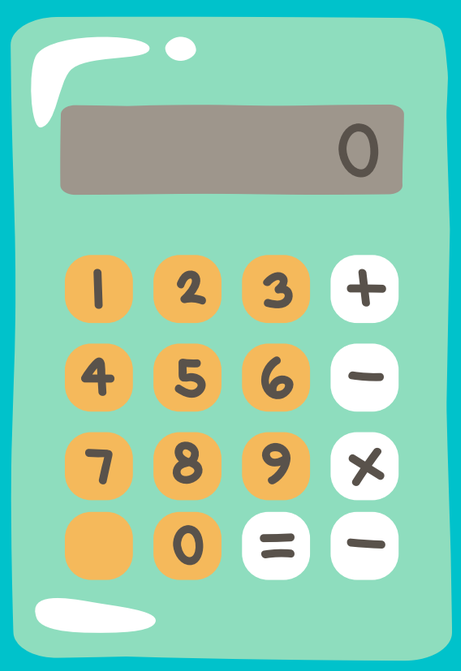
MATH CURRICULUM CONNECTION

FIRST GRADE UNIT FIVE

FAMILY RESOURCE SITE

bitly

WHAT'S ON THE FAMILY RESOURCE SITE?



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PRACTICE ON IREADY

- Interactive tutorials
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- Learning games

WHAT YOUR STUDENT SHOULD KNOW

Adding and subtracting within 20

Examples:

4+8=12

6+7=13

19-7=12

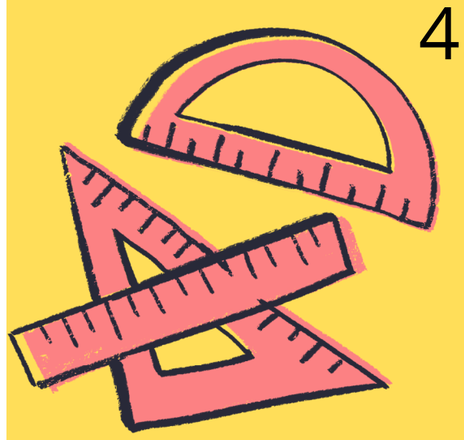
18-9=9

MATH CONVERSATIONS AT HOME

1. What object is the longest?
2. What object is shorter?
3. How long is the object?
4. How many objects did we use to measure the length?

IREADY REMINDERS

Did you know?



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MATH CURRICULUM CONNECTION

FIRST GRADE UNIT FIVE

EXAMPLE PROBLEMS

The length of two objects cannot be directly compared.

Items such as a string can be used to determine the length of objects

Your child will measure the length of objects using a known unit

Items that are the same-sized units, such as paper clips, can be used to measure objects without a ruler

Your child will line up three objects at one end to compare lengths

This will also be done for the height of the objects

MATH CURRICULUM CONNECTION

FIRST GRADE UNIT SIX

FAMILY RESOURCE SITE

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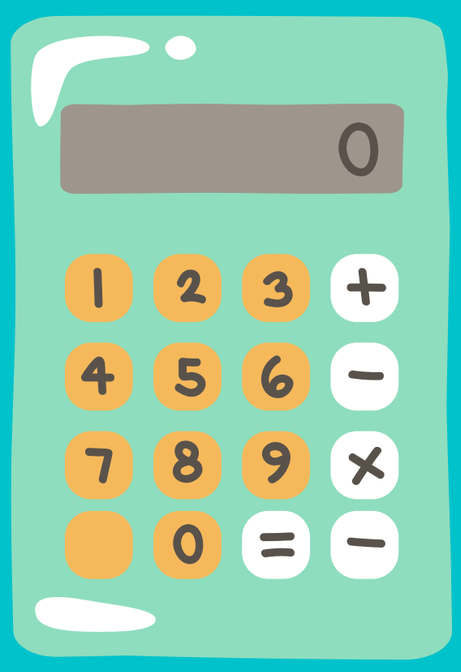

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WHAT YOUR STUDENT SHOULD KNOW

Adding and subtracting within 20

Examples:

4+8=12

19-7=12

6+7=13

18-9=9

MATH CONVERSATIONS AT HOME

1. What shape is that?
2. What shapes make a hexagon?
3. What shapes make a square?
4. What shapes can you make with a triangle?

IREADY REMINDERS

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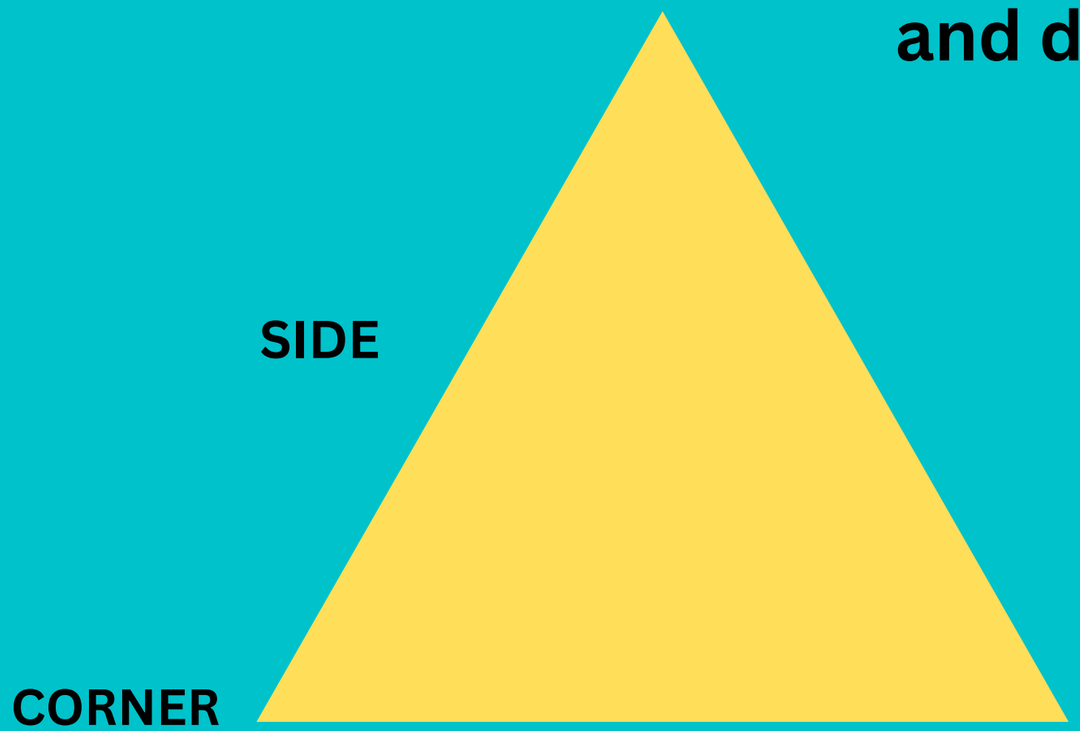
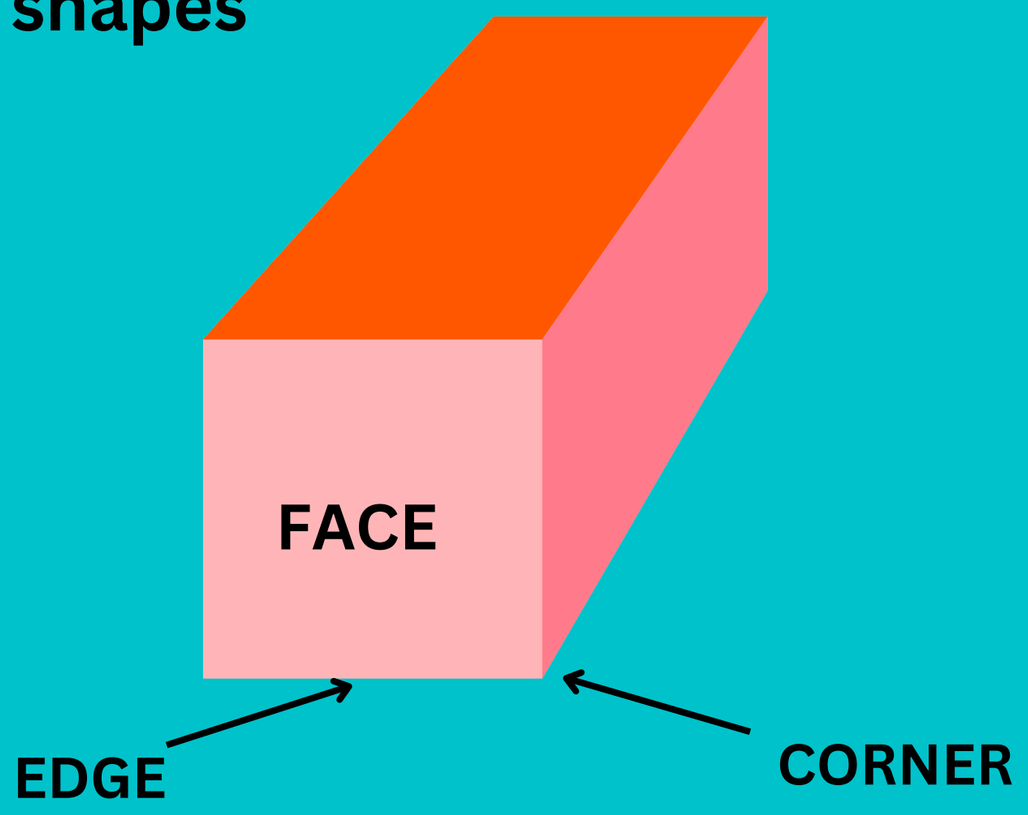
MATH CURRICULUM CONNECTION

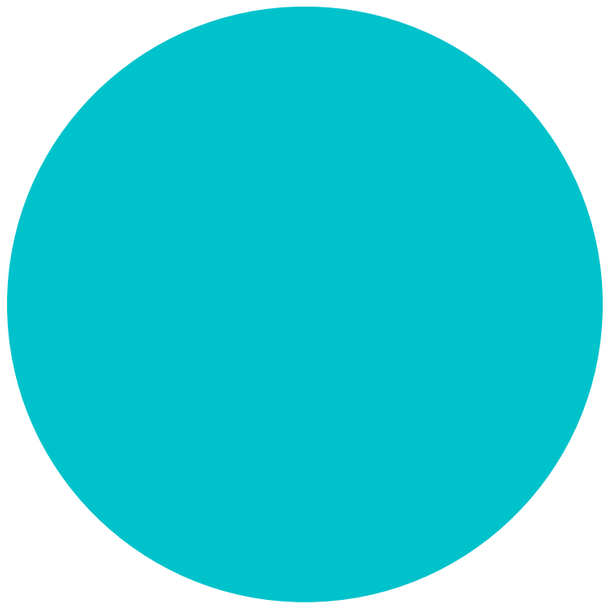
FIRST GRADE UNIT SIX

EXAMPLE PROBLEMS

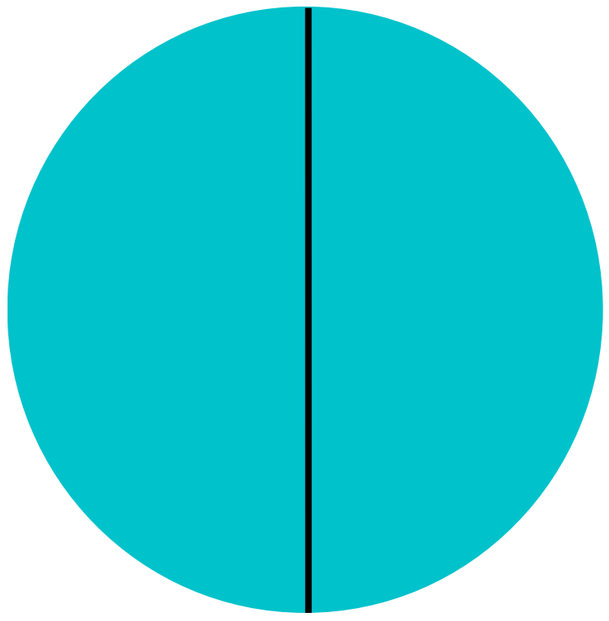
Your child is learning to name and describe shapes



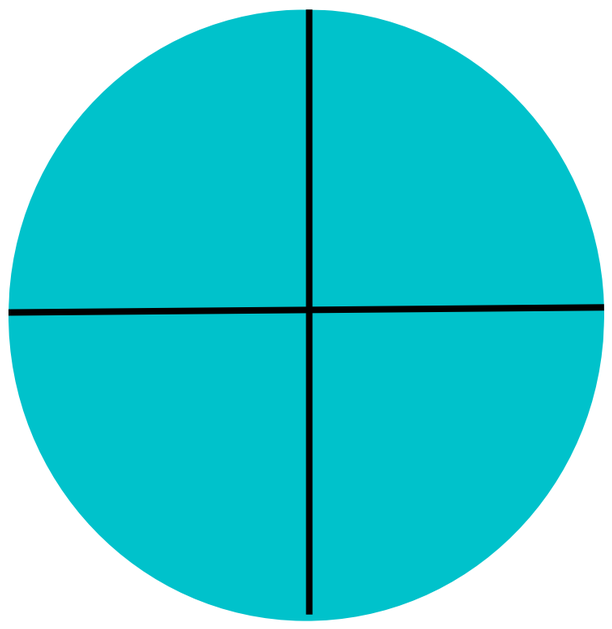




Whole



Halves



Quarters

MATH CURRICULUM CONNECTION

SECOND GRADE UNIT ONE

FAMILY RESOURCE SITE

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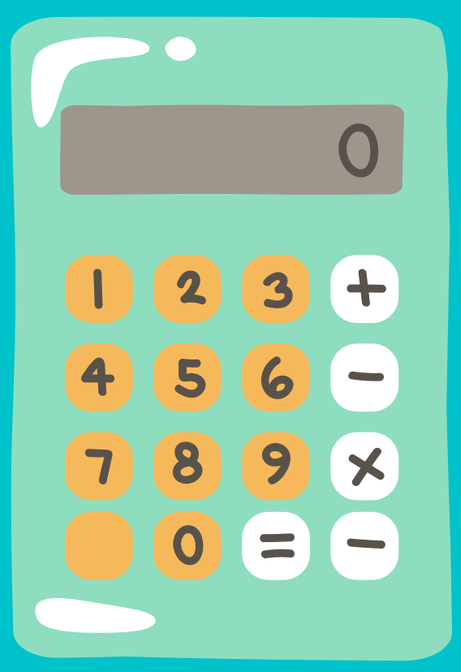

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MATH CONVERSATIONS AT HOME

1. Which objects at home can we arrange in a group of ten and then count on?
2. When would we use subtraction at the store?
3. How many solid ingredients do you use to make your favorite dish?
4. How many forks do we have at home?

WHAT YOUR STUDENT SHOULD KNOW

Telling time (hour and half hour)

Examples

10:00 am or 1:30 pm

Adding and subtracting two digit #s

Examples

23+34=57 or 87-12=75

Single-digit sums and differences from memory

4+5=9 or 8-7=1

IREADY REMINDERS

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MATH CURRICULUM CONNECTION

SECOND GRADE UNIT ONE

EXAMPLE PROBLEMS

Mental math strategies:

Double Plus 1

8 + 9

8 + 8 + 1

16

16 + 1 = 17

8 + 9 = 17

Make a Ten

6 + 8

∧

6 + 4 + 4

∨

10 +4 = 14

Count On

8 + 3

Count on 3 from 8 8,.....,9,10,11. So, 8 + 3 = 11

Weather Last Week

Sunny	☀ ☀ ☀
Rainy	🌧
Cloudy	☁ ☁
Snowy	❄

Picture and bar graphs are two ways to show data, or collections of information

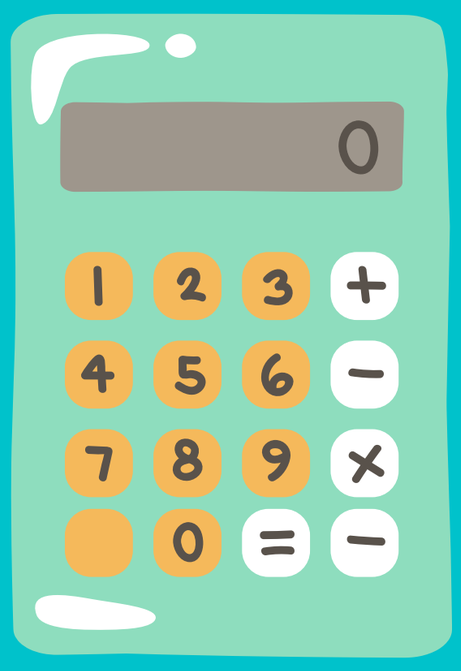
The picture graph shows there were 3 sunny days, 1 rainy day, 2 cloudy days, and 1 snowy day during the week. Each symbol represents 1 day.

MATH CURRICULUM CONNECTION

SECOND GRADE UNIT TWO

FAMILY LETTER

WHAT'S ON THE FAMILY RESOURCE SITE?



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Single-digit sums and differences from memory

Examples:

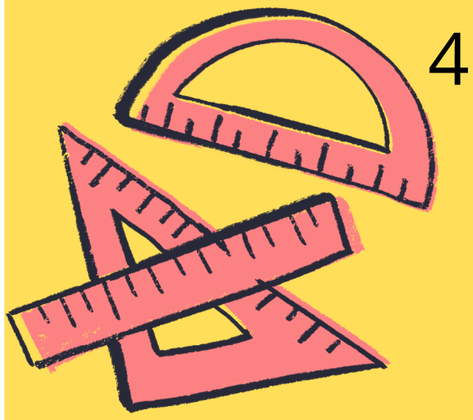
4+5=9 or 8-7=1

MATH CONVERSATIONS AT HOME

1. When could you solve one-step problems in daily life?
2. How do you know how much money you will spend when shopping?
3. What time do you wake up? is it in AM or PM?
4. What time do you go to bed? Is it in AM or PM?
5. What time do you watch your favorite show?

IREADY REMINDERS

Did you know?



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MATH CURRICULUM CONNECTION

SECOND GRADE UNIT TWO

EXAMPLE PROBLEMS

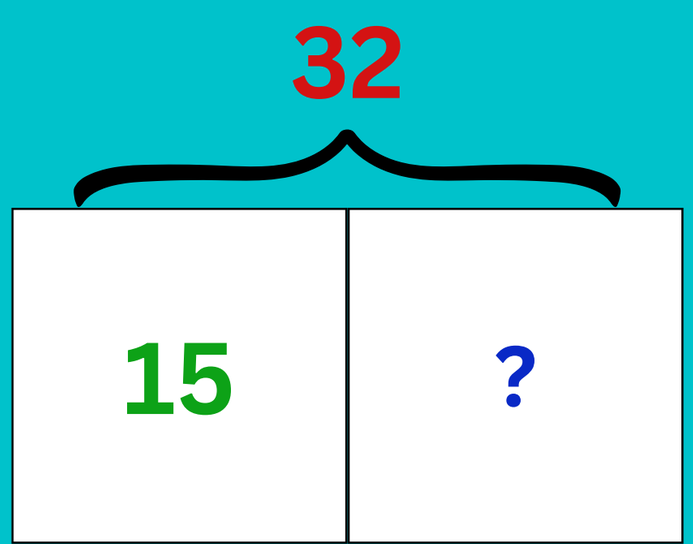
Total

Start	Change

15 + ? = 32

32 - 15 = ?

32 - 15 = 17



Find the sum of 28 + 47

Add the tens and ones

28 = 20 + 8

47 = 40 + 7

60 + 15 = 75

Go to the next 10

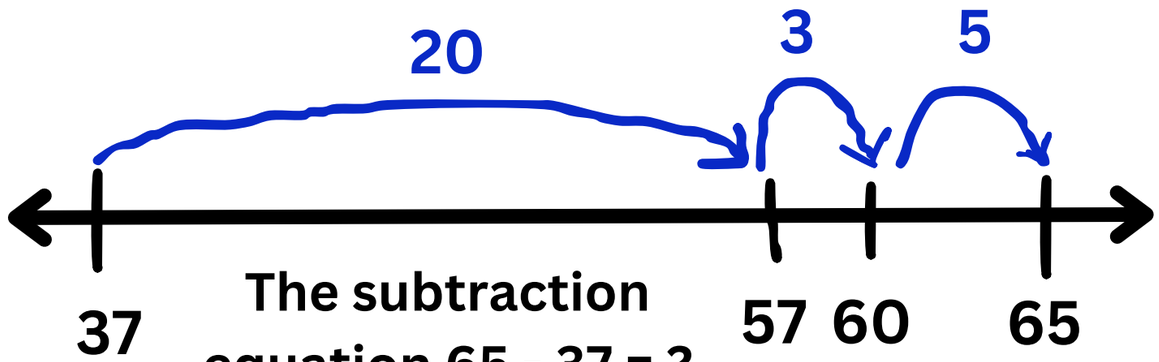
28 + 2 = 30

30 + 40 = 30

70 + 5 = 75

28 + 47 = 75

The value of four dimes is 40 cents



The subtraction equation 65 - 37 = ? shows the same relationship as the addition equation 37 + ? = 65

37 + 20 = 57

57 + 3 = 60

60 + 5 = 65

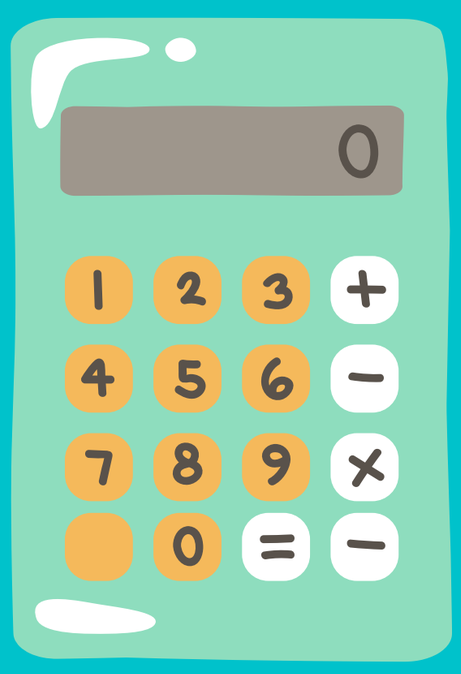
20 + 3 + 5 = 28

MATH CURRICULUM CONNECTION

SECOND GRADE UNIT THREE

FAMILY RESOURCE SITE

WHAT'S ON THE FAMILY RESOURCE SITE?



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23+34=57 or 87-12=75

Single-digit sums and differences from memory

Examples:

4+5=9 or 8-7=1

MATH CONVERSATIONS AT HOME

1. Is there anything on TV that shows three digit numbers?
2. How many pages is the longest book you have read?
3. How many days are in a year?
4. What temperature do you cook pizza at?

IREADY REMINDERS

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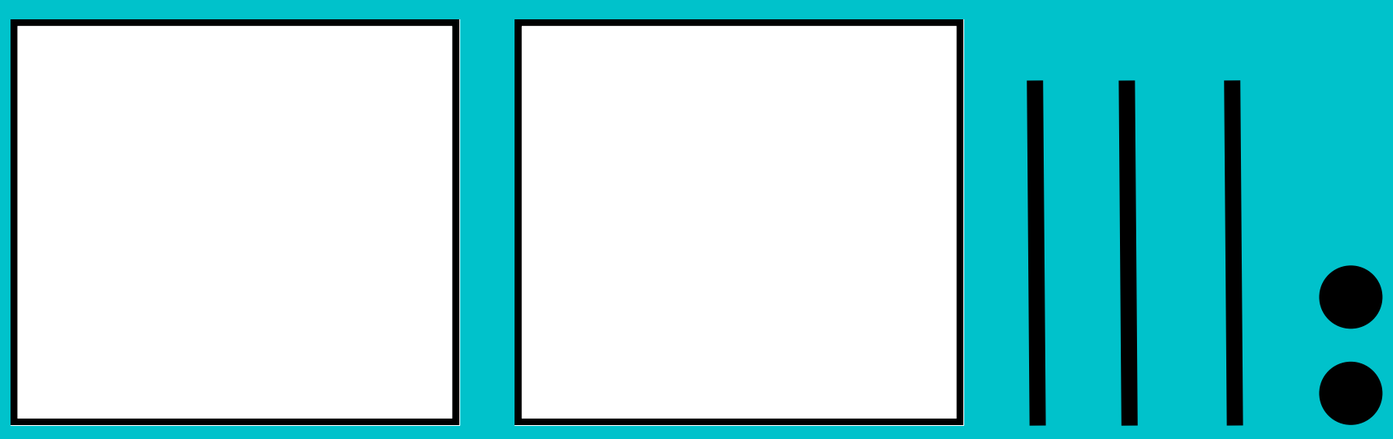
MATH CURRICULUM CONNECTION

SECOND GRADE UNIT THREE

EXAMPLE PROBLEMS

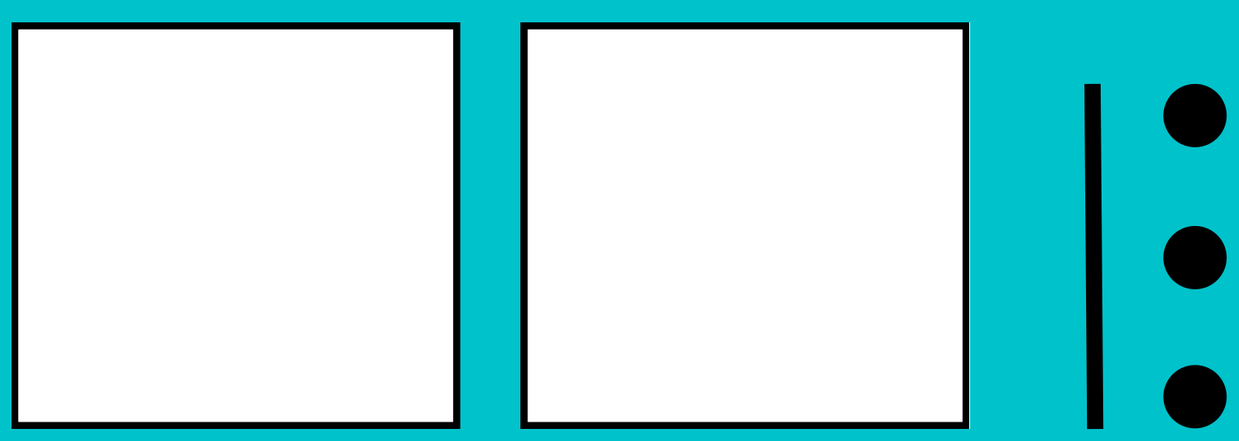


232

Your child might see a problem like this: Mr. Perez drives 232 miles. Mr. Lee drives 213. Who drives more miles?

You can model both numbers using these drawings

213



Tens	Ones
1	8
3	4
2	2
2	6

4 < > 12

4 < > 8

18 + 34 + 22 + 26

4 tens + 4 tens + 12 ones + 8 ones

8 tens + 20 ones

80 + 20 = 100

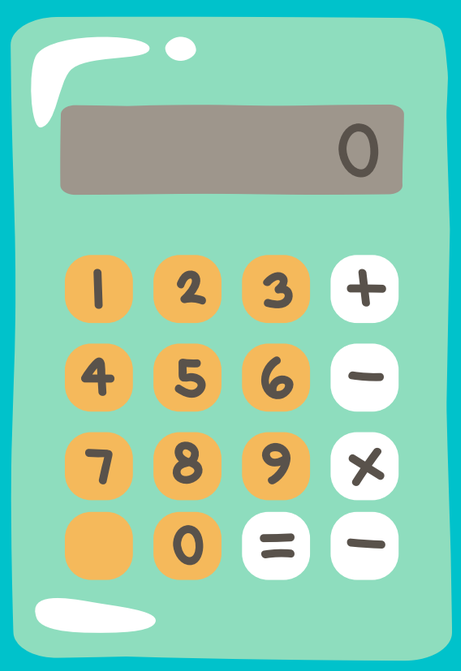
So, 18 + 34 + 22 + 26 = 100

MATH CURRICULUM CONNECTION

SECOND GRADE UNIT FOUR

FAMILY RESOURCE SITE

WHAT'S ON THE FAMILY RESOURCE SITE?



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WHAT YOUR STUDENT SHOULD KNOW

Adding and subtracting with regrouping

Examples:
63+18=81 or 82-44=38

MATH CONVERSATIONS AT HOME

1. What are some different units of measurement we use at home (when cooking, when hanging a picture on the wall, etc.)?
2. What tools do you use to measure an object?
3. What are some benchmarks you use to estimate the length of the object?
4. How can we find the different lengths between two objects?

IREADY REMINDERS

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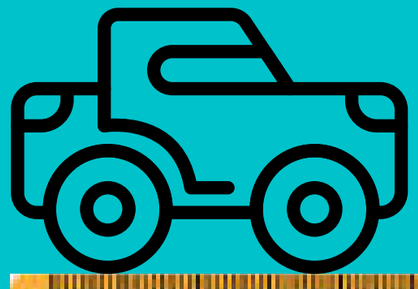
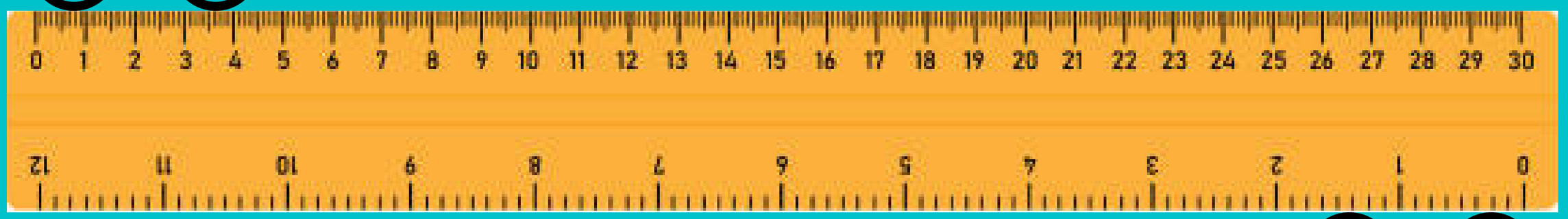
MATH CURRICULUM CONNECTION

SECOND GRADE UNIT FOUR

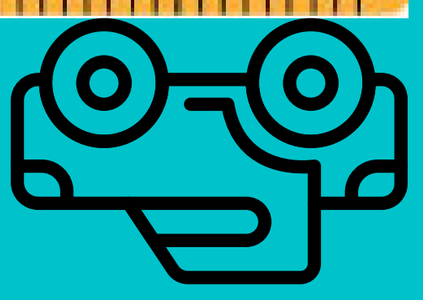
EXAMPLE PROBLEMS



A toy truck is 5 centimeters long

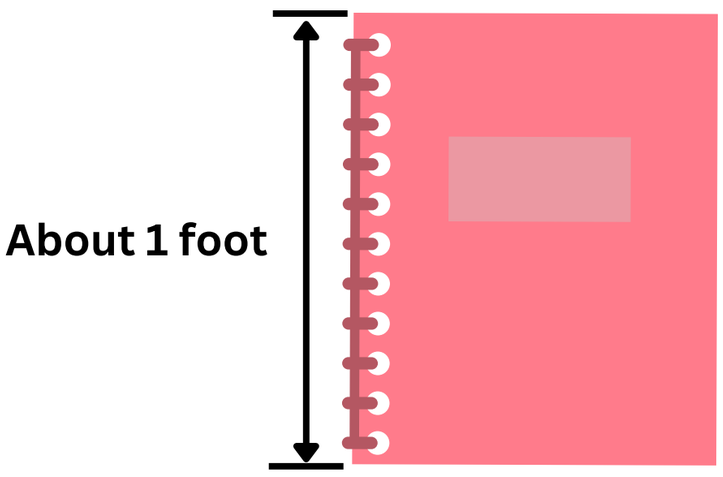


A toy truck is also 2 inches long

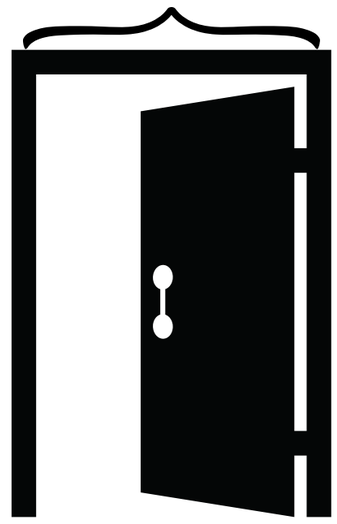


About 1 inch

About 1 foot



1 Meter



MATH CURRICULUM CONNECTION

SECOND GRADE UNIT FIVE

FAMILY RESOURCE SITE

bitly

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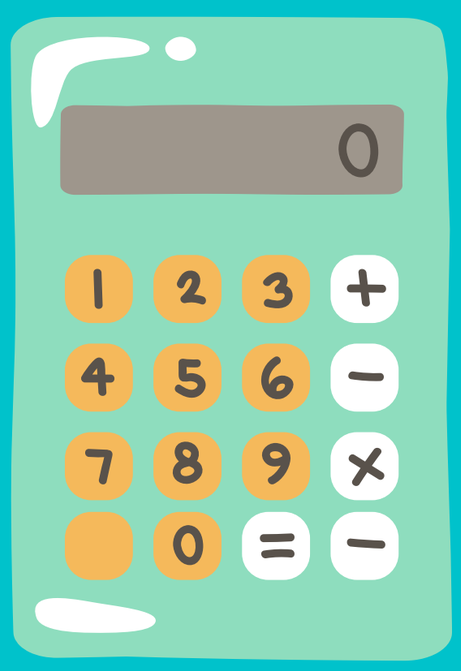

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WHAT YOUR STUDENT SHOULD KNOW

Adding and subtracting with regrouping

Examples:
63+18=81 or 82-44=38

MATH CONVERSATIONS AT HOME

1. How much taller are you than me?
2. What can we show with a number line?
3. What are examples of what data can show?

IREADY REMINDERS

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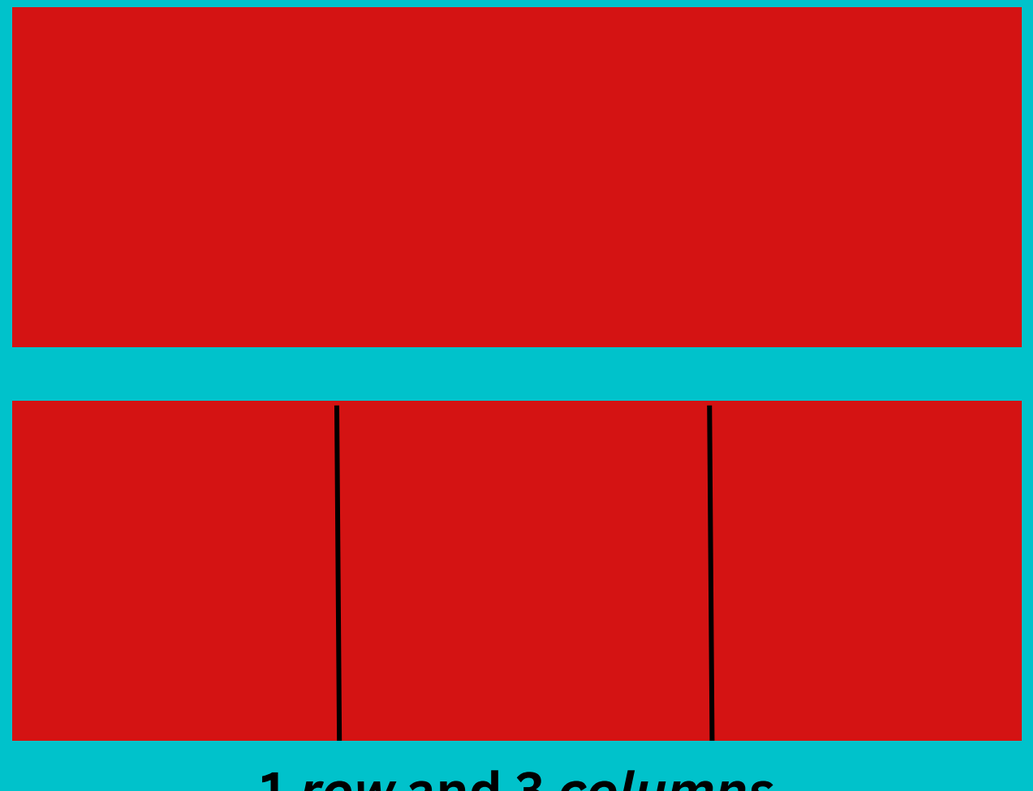
MATH CURRICULUM CONNECTION

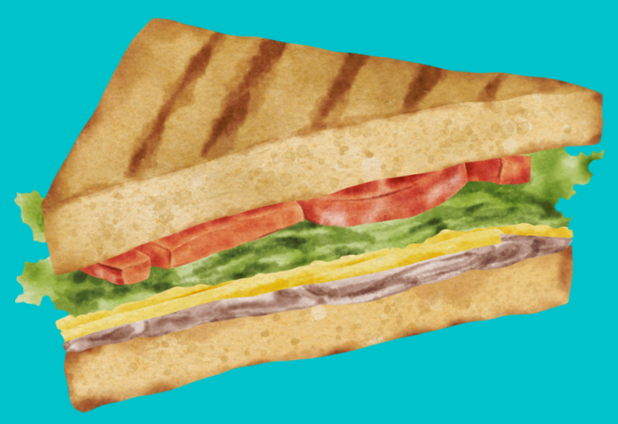
SECOND GRADE UNIT FIVE

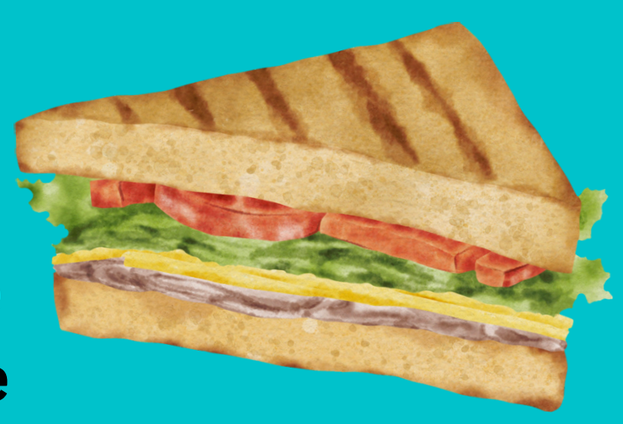
EXAMPLE PROBLEMS



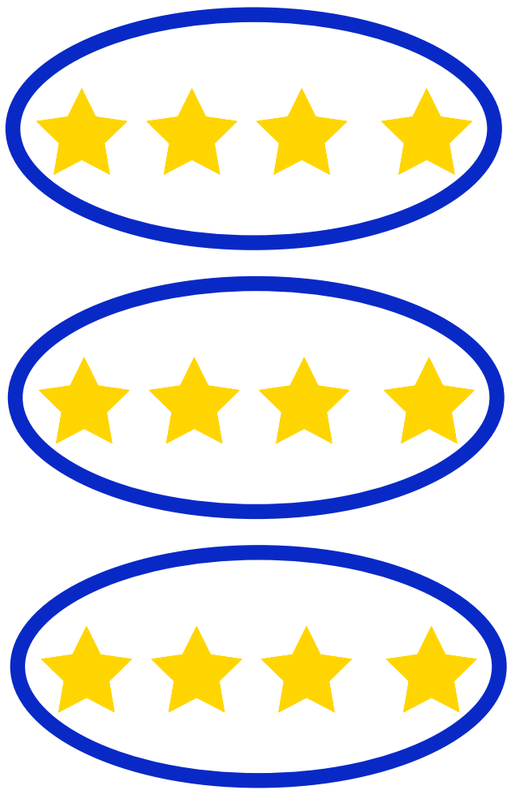
1 *row* and 3 *columns*
3 large squares

Triangles have 3 sides, 3 angles, and 3 vertices





A sandwich for example can be used as a real life example of a triangle



An array is a set of objects arranged in equal rows and equal columns
The array of stars has 3 rows ad 4 columns

Break apart the array into 3 groups of 4 stars
You can use an equation
4 + 4 + 4 = 12
Or you can skip-count by fours
4,8,12

MATH CURRICULUM CONNECTION

THIRD GRADE UNIT ONE

FAMILY RESOURCE SITE

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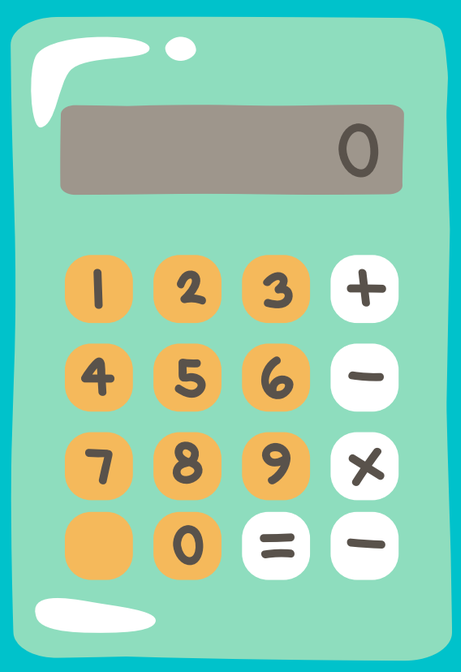
WHAT'S ON THE FAMILY RESOURCE SITE?



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WHAT YOUR STUDENT SHOULD KNOW

Multiplication facts 0-6

Examples:

0x4=0 or 3x3=9

Rounding #s to nearest 10

Examples:

37 rounds up to 40

21 rounds down to 20

MATH CONVERSATIONS AT HOME

1. Do you ever round any numbers when you cook?
2. What did you do today that required you to add numbers?
3. Do you have a special way of subtracting numbers?

IREADY REMINDERS

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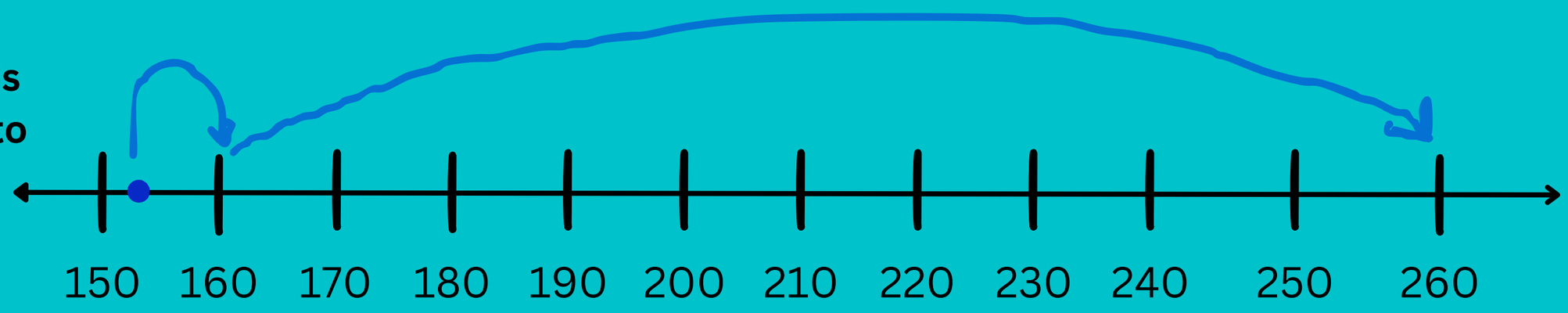
MATH CURRICULUM CONNECTION

THIRD GRADE UNIT ONE

EXAMPLE PROBLEMS

One way to find the difference 260 - 153 is to use a number line to show the related addition equation, 153 + ? = 260



153 + 7 = 160 ---> Add some ones to get to the next 10

160 + 100 = 260 ---> Add some hundreds to get to the next 10

7 + 100 = 107

153 + 107 = 260 So, 260 - 153 + 107

510	510	510
2~~60~~	2~~60~~	2~~60~~
-153	-153	-153
7	07	107
Subtract the ones digits:	**Subtract the tens digits:**	**Subtract the hundreds digits:**
3 cannot be subtracted from 0; regroup a 10	**5 - 5 = 0**	**2 - 1 = 1**
10 - 3 = 7	**(50 - 50 = 0)**	**(200 - 100 = 100)**

MATH CURRICULUM CONNECTION

THIRD GRADE UNIT TWO

FAMILY RESOURCE SITE

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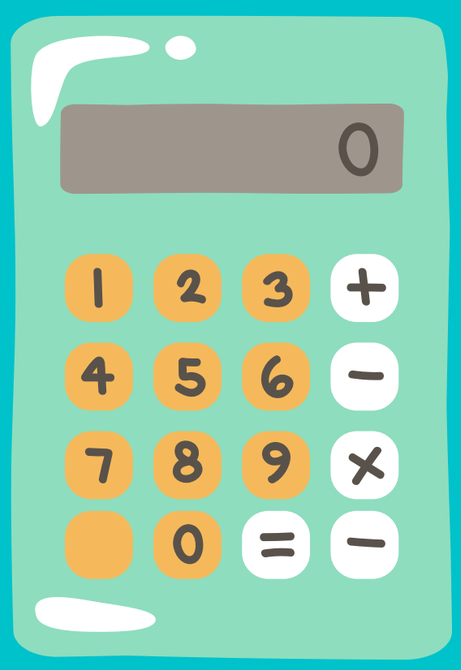

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MATH CONVERSATIONS AT HOME

1. How can you use multiplication while grocery shopping?
2. What are situations where you need to add with two, five, and ten?
3. What are some things that can be determined by multiplying by 7?

WHAT YOUR STUDENT SHOULD KNOW

Multiplication facts 0-6

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Rounding #s to nearest 10

Examples:

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21 rounds down to 20

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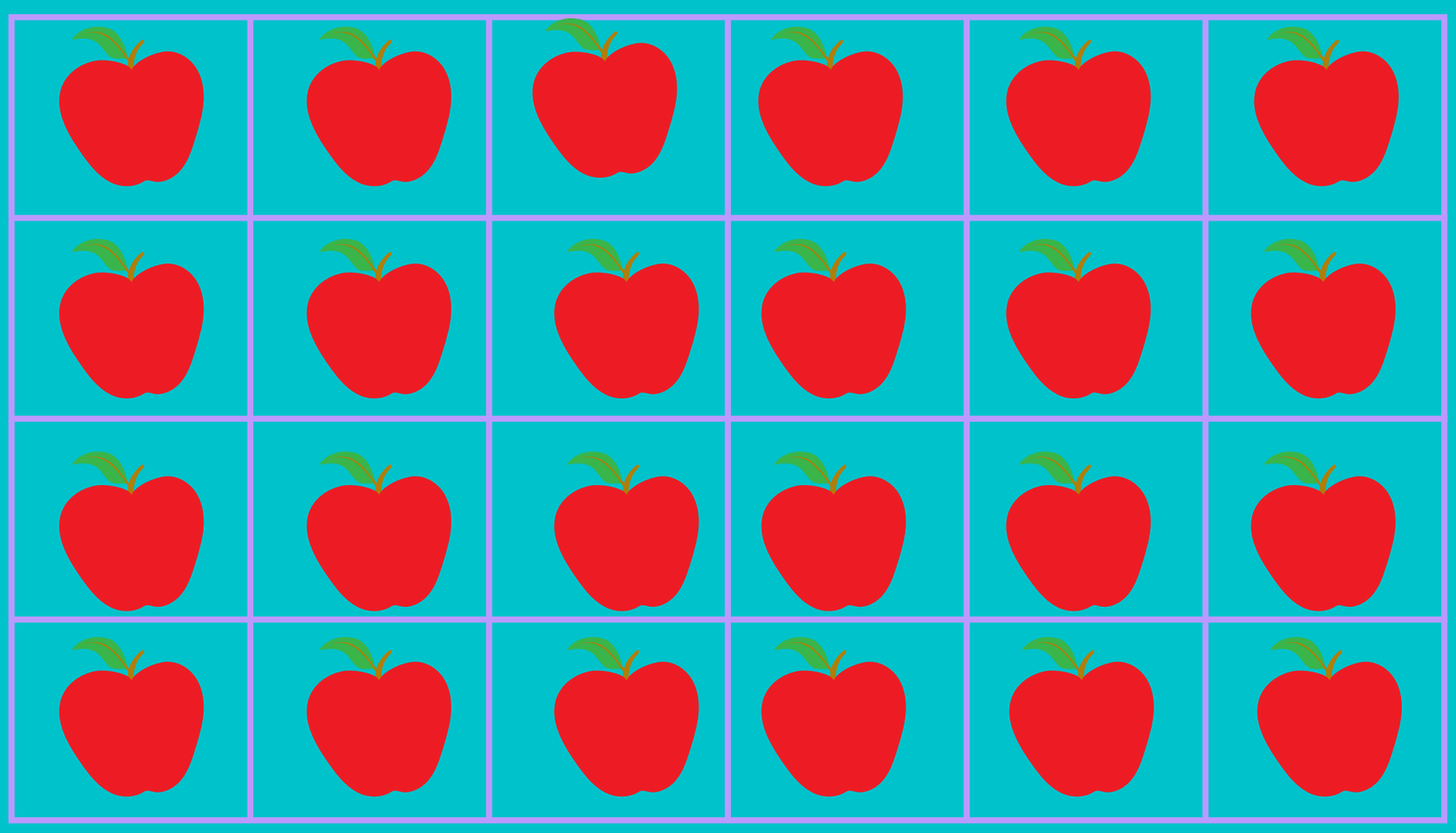
MATH CURRICULUM CONNECTION

THIRD GRADE UNIT TWO

EXAMPLE PROBLEMS



Your child is using arrays to show multiplication. An array is a set of objects arranged in equal rows and equal columns.

4 rows of 6 apples is 24 apples in all. Use the multiplication equation 4 x 6 = 24

Invite your child to share what they know about the meaning of multiplication!

Fact Families for multiplication and division are groups of related equations that use the same numbers

3 x 7 = 21 7 x 3 = 21 21 / 3 = 7 21 / 7 = 3

If you know the answer to one equation, you will know the answer to all of them!

MATH CURRICULUM CONNECTION

THIRD GRADE UNIT THREE

FAMILY RESOURCE SITE

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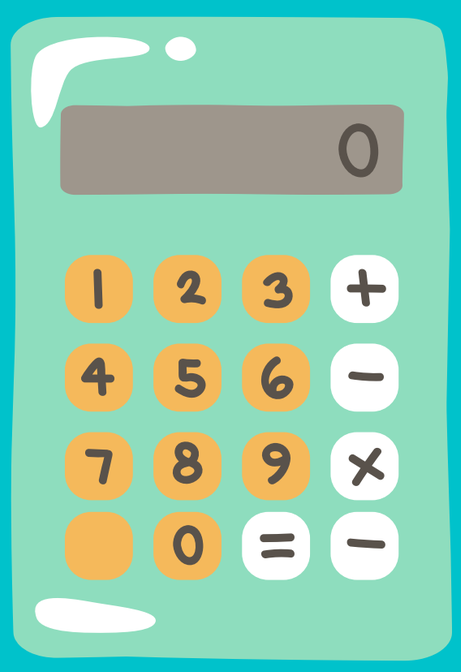
WHAT'S ON THE FAMILY RESOURCE SITE?



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WHAT YOUR STUDENT SHOULD KNOW

Multiplication facts 0-6

Examples:

0x4=0 or 3x3=9

Rounding #s to nearest 10

Examples:

37 rounds up to 40

21 rounds down to 20

MATH CONVERSATIONS AT HOME

1. How can we figure out the the area of the table top in our house?
2. Which room in our home has the greatest wall area?
3. Which room in our home has the greatest floor area?

IREADY REMINDERS

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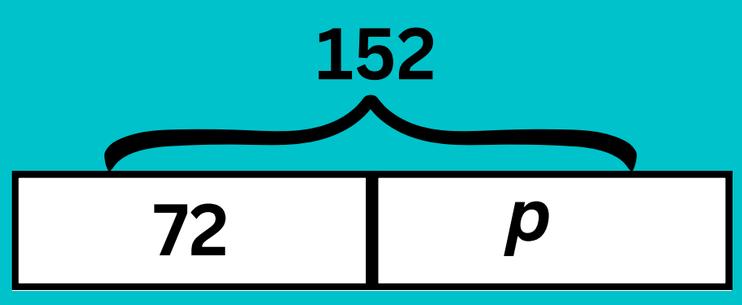
EDISON ELEMENTARY, A COMMUNITY SCHOOL

MATH CURRICULUM CONNECTION

THIRD GRADE UNIT THREE

EXAMPLE PROBLEMS

Your child is solving two-step word problems using any mix of the four operations and estimating to check the answer.



This diagram shows that Jenny started with 152 peaches, gave 72 to her neighbor, and kept *p* for herself.

Here is a problem they might see:

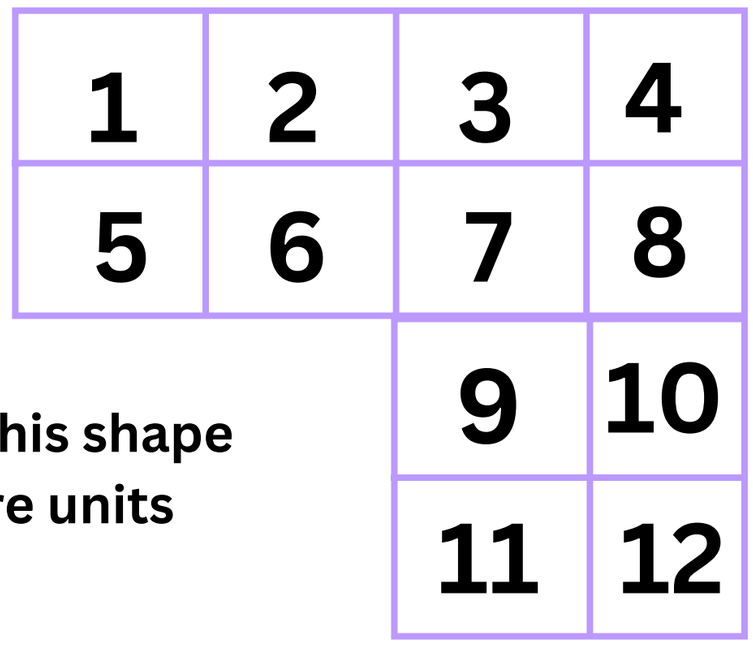
Jenny has 152 peaches, and she uses 8 peaches to make one pie. If she first gives 72 peaches to her neighbor, how many pies can she make with the peaches she keeps for herself?

$$152 - 72 = 80$$

$$8 \times g = 80 \text{ or } 80 / 8 = g \quad \text{or} \quad (152 - 72) / 8 = 10$$

$$80 / 8 = 10$$

The area of this shape is 12 square units



- All square units must be the same size
- There cannot be any gaps between the squares
- The squares cannot overlap each other anywhere

MATH CURRICULUM CONNECTION

THIRD GRADE UNIT FOUR

FAMILY RESOURCE SITE

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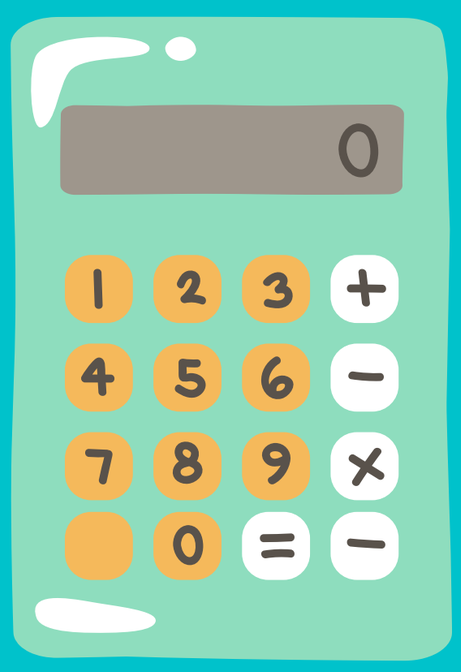

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WHAT YOUR STUDENT SHOULD KNOW

Multiplication facts 0-10

Examples:

5x6=30 or 9x9=81

Adding and subtracting within 100

Examples:

37+22=59 or 24+71=95

MATH CONVERSATIONS AT HOME

1. What kind of foods make you think of fractions?
2. What fractions are on measuring cups?
3. What are two food items we can use to show equivalent fractions?
4. What jobs require workers to use fractions?
5. What are jobs that require measuring?

IREADY REMINDERS

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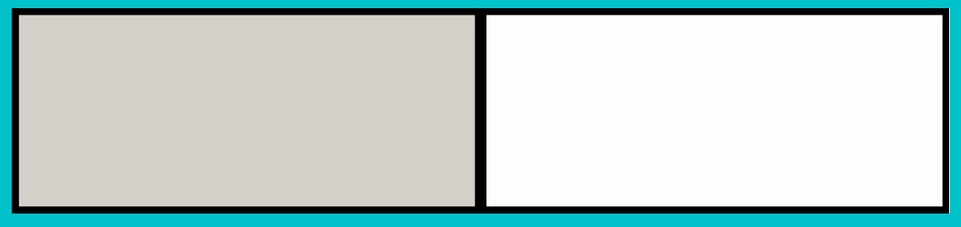
MATH CURRICULUM CONNECTION

THIRD GRADE UNIT FOUR

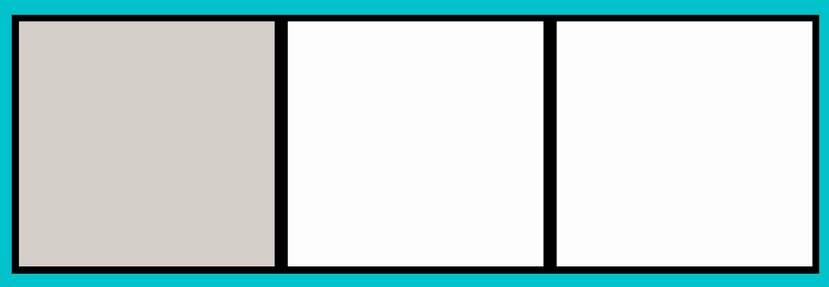
EXAMPLE PROBLEMS

1/2, or one half, of this rectangle has been shaded

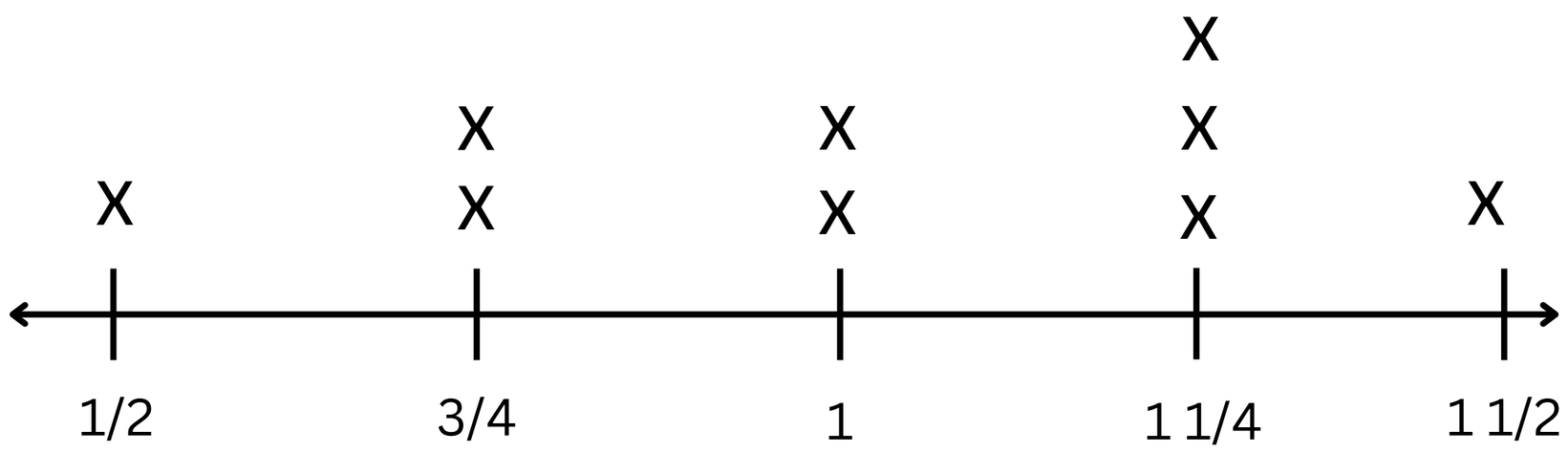


<u>1 part shaded</u>

2 equal parts in the whole



1/3, or one third, is another example of a unit fraction



MATH CURRICULUM CONNECTION

THIRD GRADE UNIT FIVE

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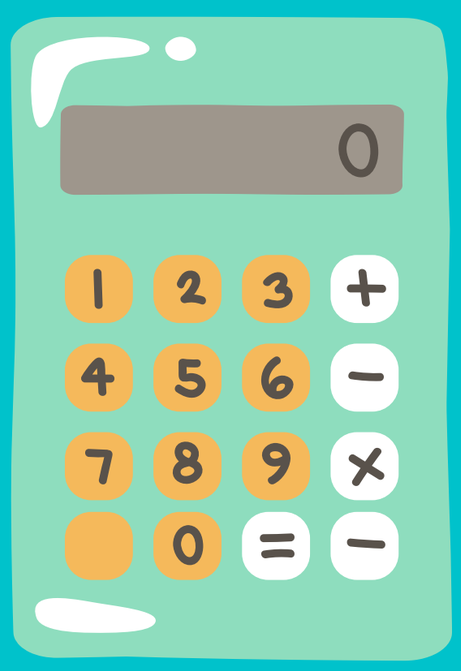

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WHAT YOUR STUDENT SHOULD KNOW

Multiplication facts 0-10

Examples:

5x6=30 or 9x9=81

Adding and subtracting within 100

Examples:

37+22=59 or 24+71=95

MATH CONVERSATIONS AT HOME

1. During what activities do people use clocks?
2. How much water do you drink during one day? What is the estimated amount in liters?
3. What is an object we have at home that weighs less than a gram?

IREADY REMINDERS

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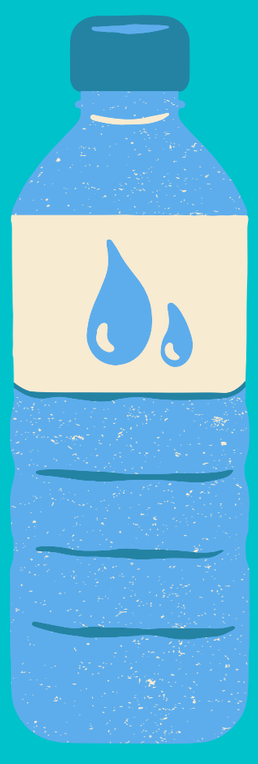
MATH CURRICULUM CONNECTION

THIRD GRADE UNIT FIVE

EXAMPLE PROBLEMS



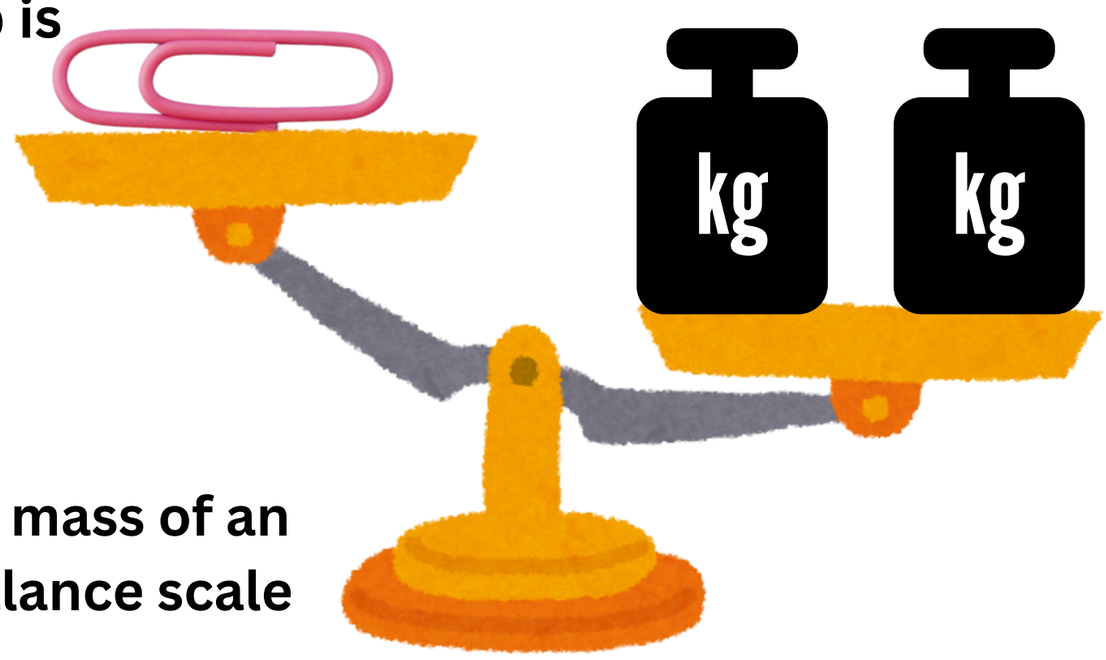
Liquid volume is the amount of space a liquid takes up.

A liter is about the same as a quart. You can picture a liter as:

the amount of water in a large water bottle

the amount of milk in 1/4 of a gallon

The mass of a paper clip is about 1 gram



A kilogram is equal to 1,000 grams

So, it is also as heavy as 1,000 paper clips

One way to find the mass of an object is to use a balance scale

MATH CURRICULUM CONNECTION

THIRD GRADE UNIT SIX

FAMILY RESOURCE SITE

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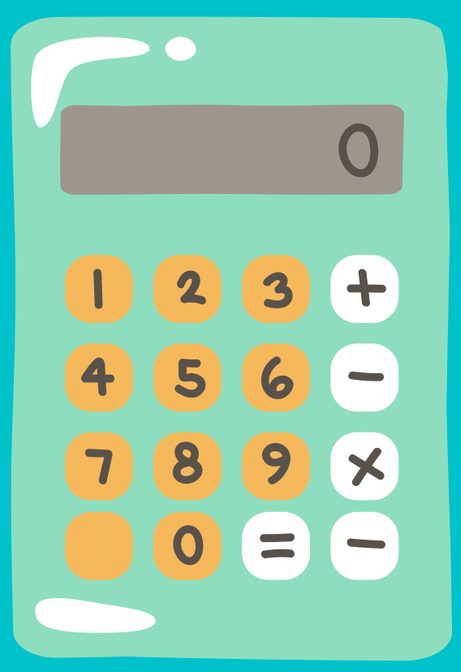

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MATH CONVERSATIONS AT HOME

1. What are some shapes that have more than four sides?
2. Name quadrilaterals that you know.
3. What are some items at home that have both an area and perimeter?

WHAT YOUR STUDENT SHOULD KNOW

Multiplication facts 0-10

Examples:

5x6=30 or 9x9=81

Adding and subtracting within 100

Examples:

37+22=59 or 24+71=95

IREADY REMINDERS

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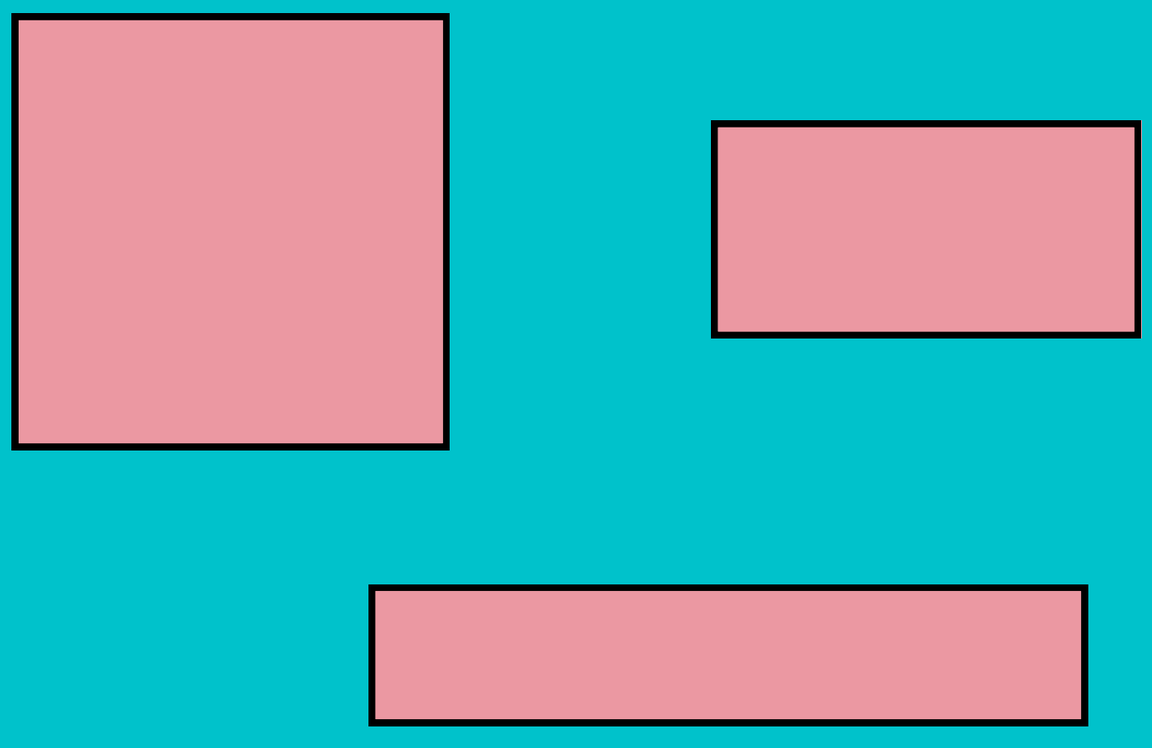
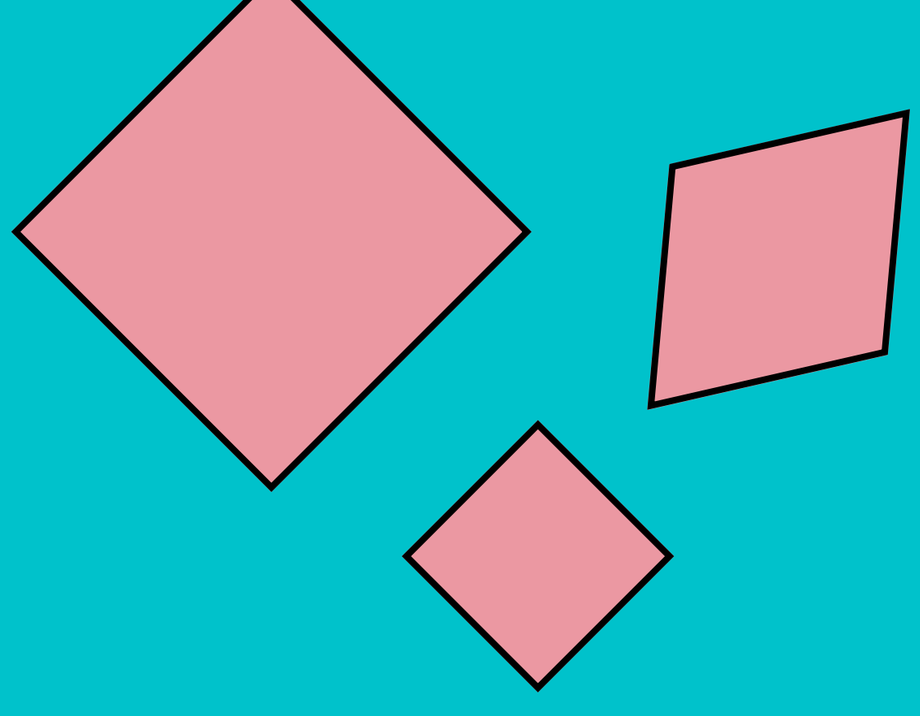
MATH CURRICULUM CONNECTION

THIRD GRADE UNIT SIX

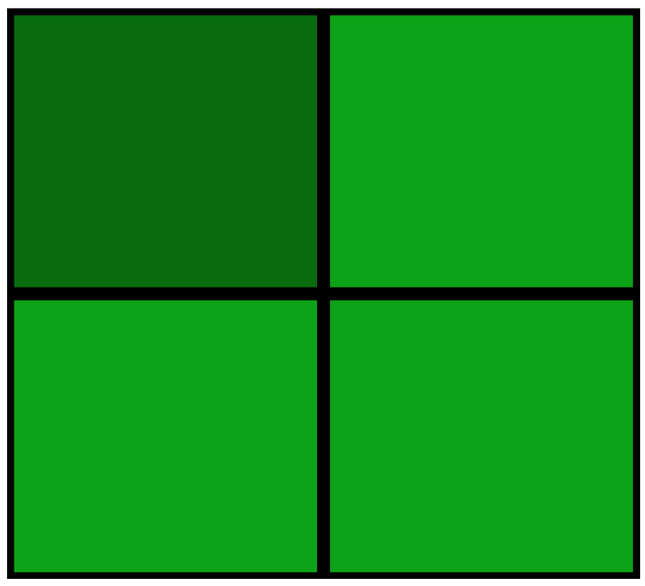
EXAMPLE PROBLEMS



A rectangle is any quadrilateral with 4 right angles



A rhombus is any quadrilateral with 4 sides that are all the same length



This square is broken into 4 equal parts. So, the area of one shaded part is 1/4 of the area of the whole square.

Since all 4 parts in each square are the same size and shape, each part is 1/4 of the whole shape.

MATH CURRICULUM CONNECTION

FOURTH GRADE UNIT ONE

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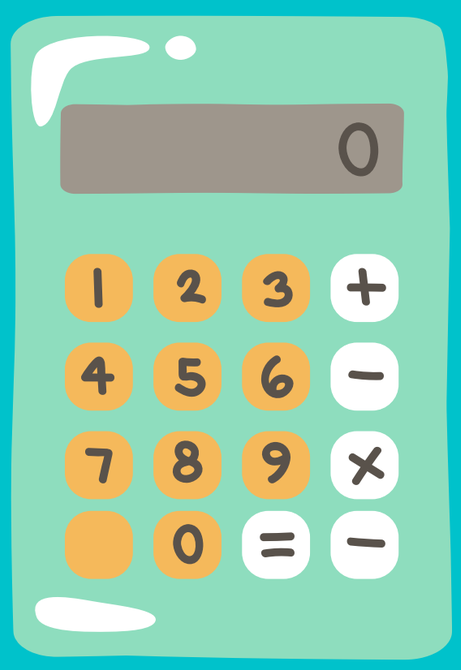

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WHAT YOUR STUDENT SHOULD KNOW

Multiplication facts 0-12

Examples:

2x10 =20

9x7=63

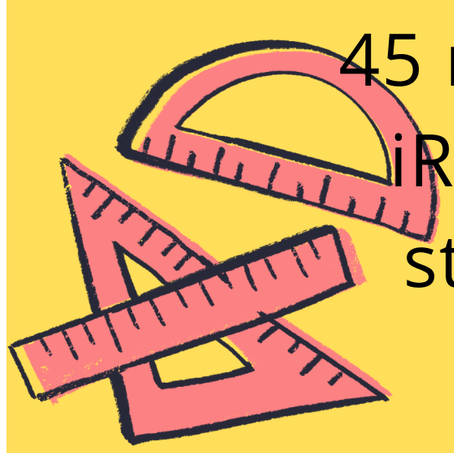
12x12=144

MATH CONVERSATIONS AT HOME

1. How many miles are we from school?
2. What is the tallest object in our home?
3. When might people you know need to round numbers?
4. When do you use subtraction at the store?

IREADY REMINDERS

Did you know?



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MATH CURRICULUM CONNECTION

FOURTH GRADE UNIT ONE

EXAMPLE PROBLEMS

Your child is exploring place value in numbers

A digit in one place has 10 times the value that the same digit would have in the place to its right

Thousands Period			Ones Period		
Hundred Thousands	**Ten Thousands**	**Thousands**	**Hundreds**	**Tens**	**Ones**
7	**4**	**2**	**5**	**5**	**9**

The number in standard form: 742,559

The number in expanded form: 700,000 + 40,000 + 2,000 + 500 + 50 + 9

Your child is learning to add and subtract whole numbers using the standard algorithm

Addition Regrouping

1 1
6,859
+ 2,703
9,562

Add by using place value

6,859
+ 2,703
12
50
1,500
8,000
9,562

Subtraction Regrouping

~~9~~ ~~9~~
5 ~~10~~ ~~10~~ ~~11~~
~~6,001~~
-3,528
2,473

Example Subtraction

5 14
7,8~~6~~~~4~~
-3,219
4,645

MATH CURRICULUM CONNECTION

FOURTH GRADE UNIT TWO

FAMILY RESOURCE SITE

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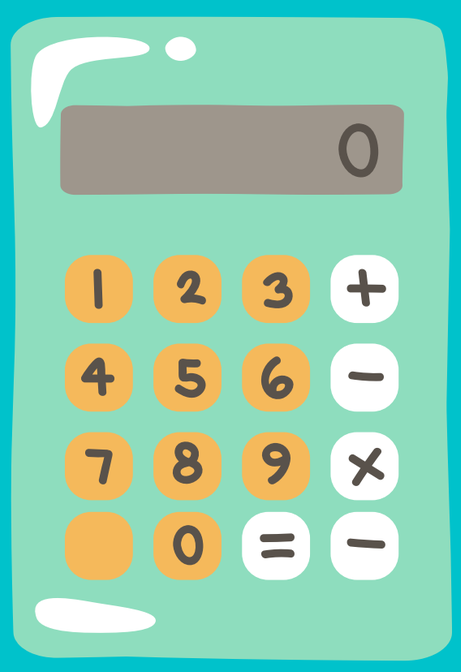

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WHAT YOUR STUDENT SHOULD KNOW

Multiplication facts 0-12

Examples:

2x10 =20

9x7=63

12x12=144

MATH CONVERSATIONS AT HOME

1. When do you use multiplication at the store?
2. Can multiplication be used to solve a problem about football (or any sport)?
3. You have 20 coins in a cupholder. Let's see how many ways we can group the coins into equal groups.
4. How can we share 7 snacks between family members?

IREADY REMINDERS

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MATH CURRICULUM CONNECTION

FOURTH GRADE UNIT TWO

EXAMPLE PROBLEMS

Number in one bag | 7

Number Mark needs | 7 | 7 | 7

?

A card store sells bags of 7 markers. Mark needs three times that amount. How many markers does Mark need?

Then you can use the bar model to write an equation to help understand the problem

3 X number of markers in one bag = total markers needed

3 X 7 = ?

3 X 7 = 21

Monica is pasting 18 stars in rows on the wall. She wants to put the same number of stars in each row. Find all the ways she can arrange the stars.

One way to paste the stars is 3 rows of 6. Another way is 6 rows of 3. 3 and 6 are a factor pair of 18 because 3 X 6 = 18

MATH CURRICULUM CONNECTION

FOURTH GRADE UNIT THREE

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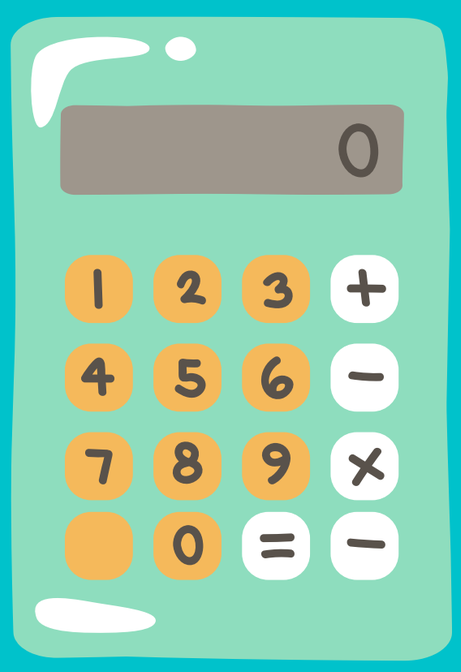

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WHAT YOUR STUDENT SHOULD KNOW

Multiplication facts 0-12

Examples:

2x10 =20

9x7=63

12x12=144

MATH CONVERSATIONS AT HOME

1. If you drive 23 miles a week to and from school, how many miles do you drive in 4 weeks?
2. There are 12 windows in 6 different apartments, how many windows are there total?
3. When we weigh fruit at the grocery store do we use ounces or pounds?
4. If we had 21 markers to divide within the family, how many markers would each person get?

IREADY REMINDERS

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MATH CURRICULUM CONNECTION

FOURTH GRADE UNIT THREE

EXAMPLE PROBLEMS

Your child is learning to multiply a greater number by a one-digit number, such as 324 X 9.

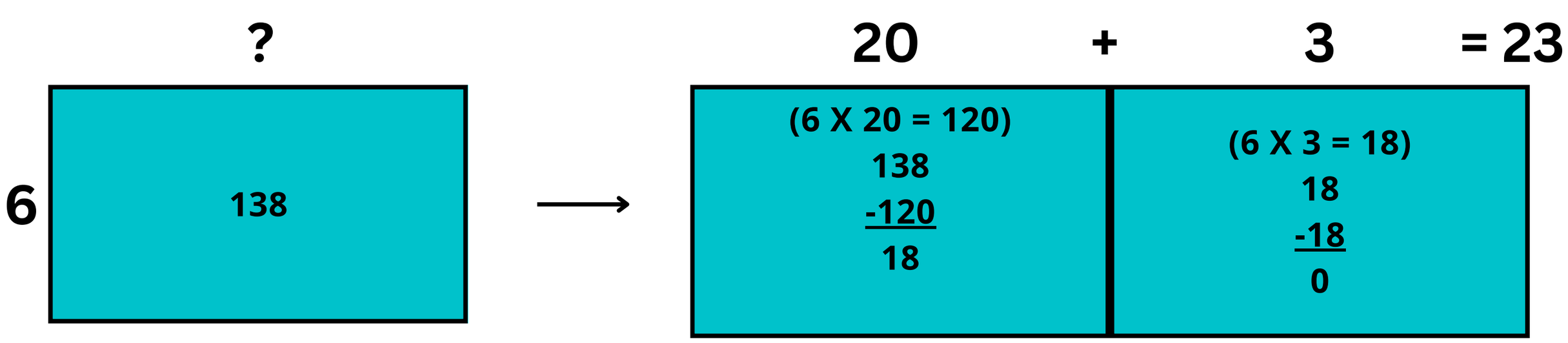
One way to multiply is to use partial products. With this strategy, you multiply each digit in 324 by 9, taking into account the place value of each digit.

```
  324
X   9
 ---
  36   ⟶  9 X 4 ones
 180   ⟶  9 X 2 tens
+2,700  ⟶  9 X 3 hundreds
 ---
2,916
```

So, 324 X 9 = 2,916

When dividing you can use partial quotients. With this strategy, your child divides by breaking the dividend into parts.

```
   3
  25
 500
 ---
4) 2,113   ⟵ How many groups of 4 in 2,000? 500
-2,000     ⟵ Subtract 500 groups of 4.
 ---
 113       ⟵ How many groups of 4 in 100? 25
-100       ⟵ Subtract 25 groups of 4.
 ---
  13       ⟵ How many groups of 4 in 13? 3
-12        ⟵ Subtract 3 groups of 4.
 ---
   1
```



When your child uses area models they divide by breaking apart the problem into smaller parts and using repeated subtraction

MATH CURRICULUM CONNECTION

FOURTH GRADE UNIT FOUR

FAMILY RESOURCE SITE

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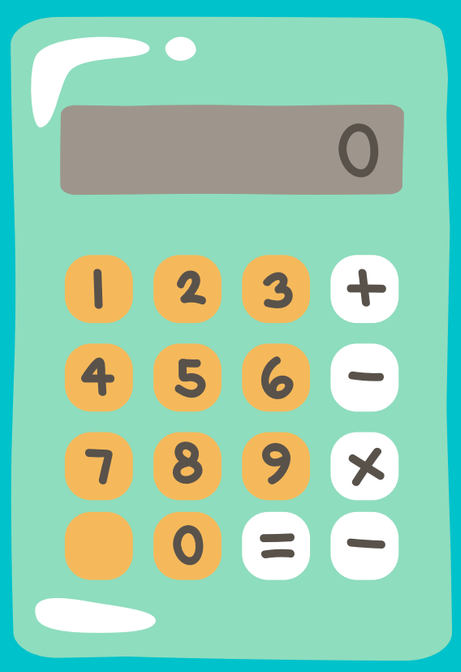

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WHAT YOUR STUDENT SHOULD KNOW

Add/subtract within 1,000,000

Examples:

5,432 + 6,789 = 12,221

89,525 - 1,632 = 87,893

MATH CONVERSATIONS AT HOME

1. What do you use to measure ingredients when you cook?
2. If you have one glass that is 1/2 full and a glass that is 3/4 full which one has the greatest amount?
3. When we eat pizza or pie how many slices does each pie have?
4. What do you eat that you can cut into equal parts?

IREADY REMINDERS

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MATH CURRICULUM CONNECTION

FOURTH GRADE UNIT FOUR

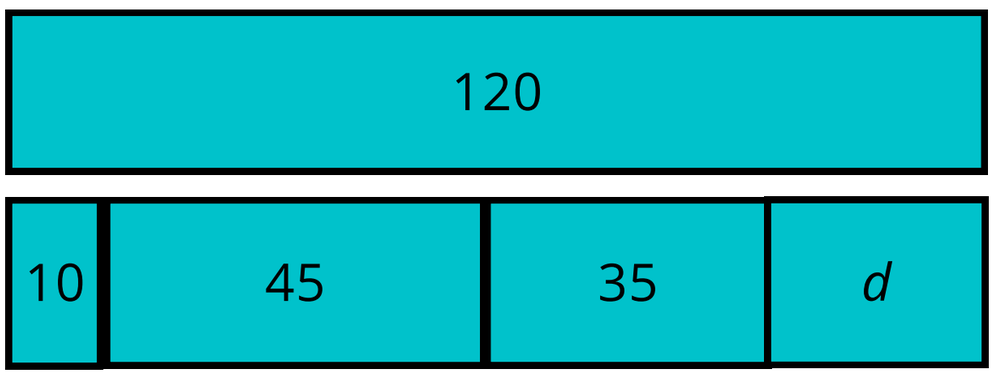
EXAMPLE PROBLEMS

A way to compare fractions is to write equivalent fractions with the same denominators

$$\frac{3 \times 6}{5 \times 6} = \frac{18}{30} \qquad \frac{3 \times 5}{6 \times 5} = \frac{15}{30}$$

$$\frac{18}{30} > \frac{15}{30} \quad \text{So,} \quad \frac{3}{5} > \frac{3}{6}$$

Penny had two hours to complete her chores. She spends 10 minutes putting away her clean clothes. She spends 45 minutes cleaning her closet. It takes her 35 minutes to clean the bathroom. How much time does penny have left to give her dog a bath?



The problem has information in both minutes and hours, so the first step is to convert hours to minutes. There are 60 minutes in 1 hour, multiply 60 by 2 to convert 2 hours to minuets: 2 X 60 + 120

Solve the equation using the bar method: d = 120 - 10 - 45 - 35

***d* = 30**

MATH CURRICULUM CONNECTION

FOURTH GRADE UNIT FIVE

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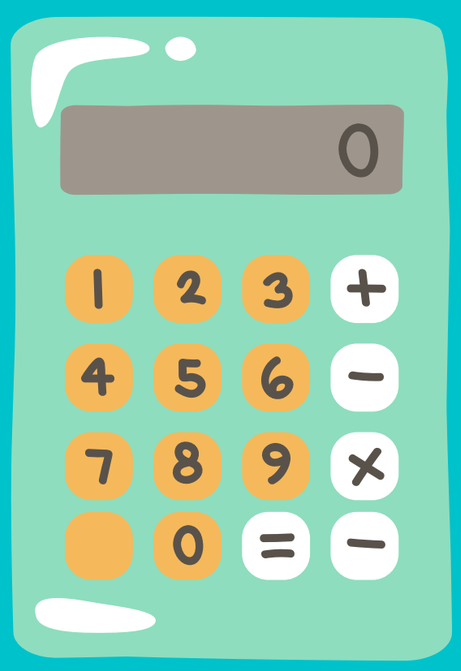

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WHAT YOUR STUDENT SHOULD KNOW

Add/subtract within 1,000,000

Examples:

5,432 + 6,789 = 12,221

89,525 - 1,632 = 87,893

MATH CONVERSATIONS AT HOME

1. Find an angle that is less than 90 degrees
2. How many degrees is in a right angle?
3. What street sign has three sides and three angles?
4. Do you think our front door has symmetry?

IREADY REMINDERS

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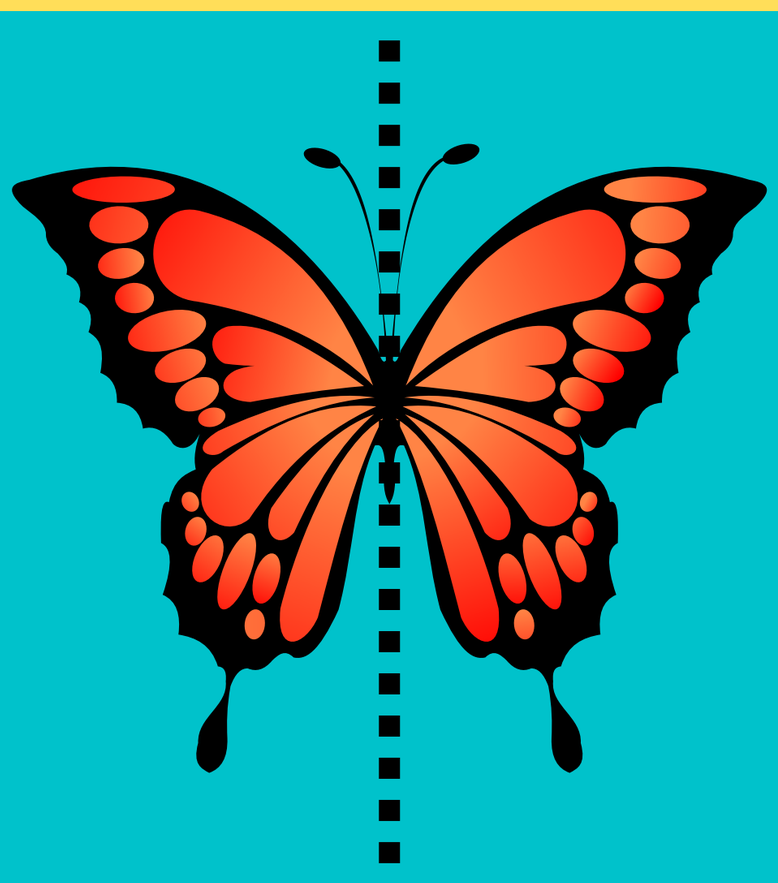
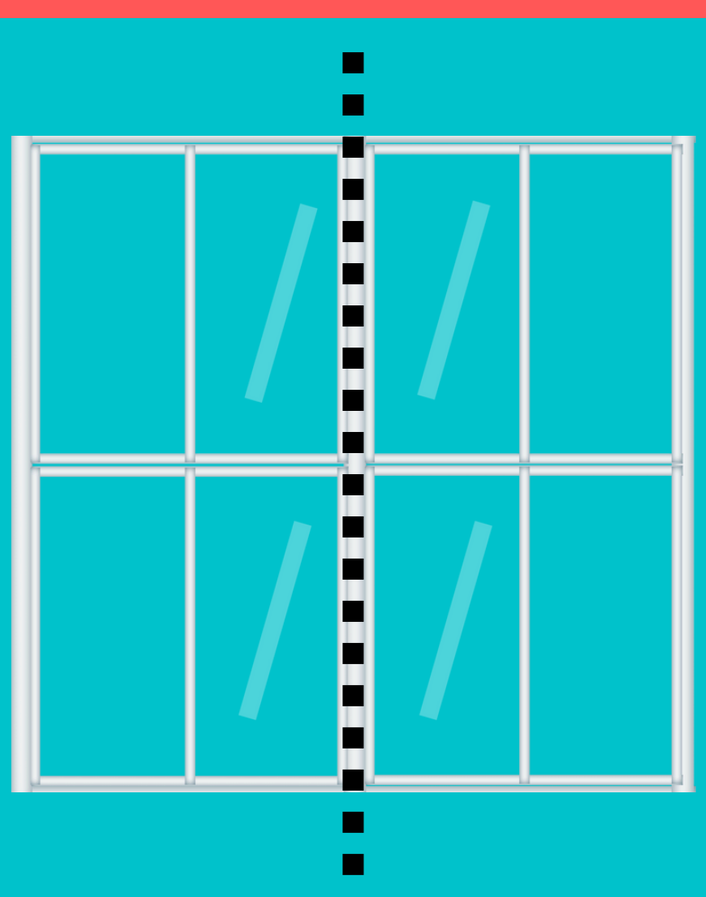
MATH CURRICULUM CONNECTION

FOURTH GRADE UNIT FIVE

EXAMPLE PROBLEMS



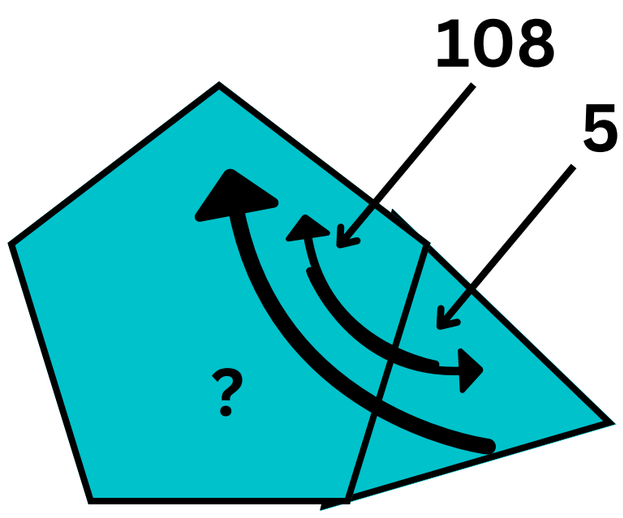


You can find symmetrical shapes in real life, in both natural and man-made objects.

A line of symmetry is a line that divides a shape into two mirror images.

Your child is learning to find the line of symmetry in shapes.

The two shapes here are placed together as shown. Two angle measures are given 108 and 55.



The larger combined angle measures 163 degrees.

108 + 55 = 163

MATH CURRICULUM CONNECTION

FIFTH GRADE UNIT ONE

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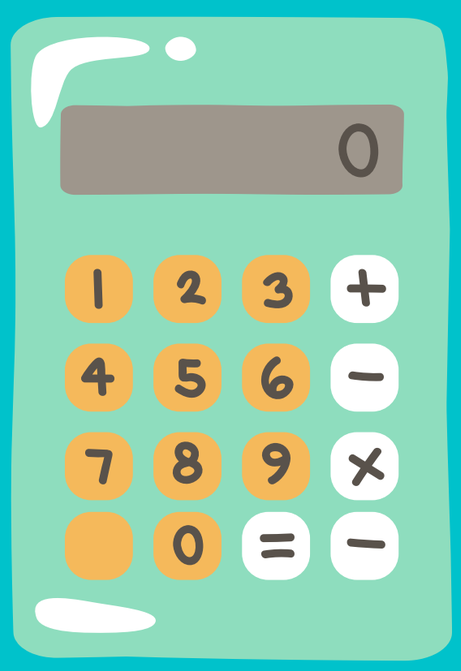

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MATH CONVERSATIONS AT HOME

1. When you buy a new shirt how do you know if it will fit in your drawer?
2. What role does volume have in food packaging?
3. What object in our home is a rectangular prism?
4. What are some things you do in your daily life that requires you to divide by two digit numbers?

WHAT YOUR STUDENT SHOULD KNOW

Exploring fractions and decimals

Examples:

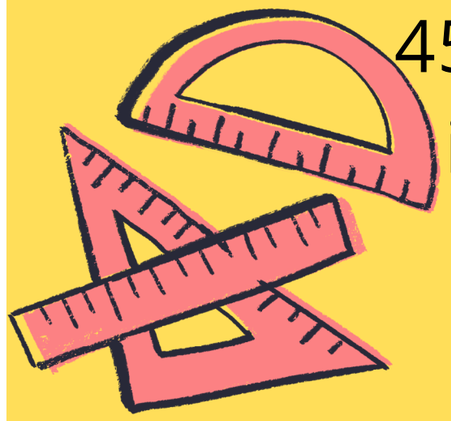
1/2 = 0.5

3/4 = 0.75

4/5 = 0.8

IREADY REMINDERS

Did you know?



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MATH CURRICULUM CONNECTION

FIFTH GRADE UNIT ONE

EXAMPLE PROBLEMS

Solve a division problem such as 770 / 14

55 — Quotient

5

50

14)770

-700

70

70

0

5 and 50 are partial quotients

- **First divide the hundreds in 770 by 14.**
  - There are 50 groups of 14 in 700
- **Then divide the tens in 770 by 14**
  - There are 5 groups of 14 in 700
- **Add the partial quotients to find the quotient**
  - 50 + 5 = 55
    - So 770 / 14 = 55

Solve the multiplication problem

124 X 25

First, multiply each digit in 124 by the 5 ones in 25

124
X 5
20
100
+500
620

Partial Product

Then multiply each digit in 124 by the 2 tens in 25

124
X 20
80
400
+2,000
2,480

Partial Product

Lastly, add the partial products to find the product:
124 X 25 = 620 + 2480 = 3,100

MATH CURRICULUM CONNECTION

FIFTH GRADE UNIT TWO

FAMILY RESOURCE SITE

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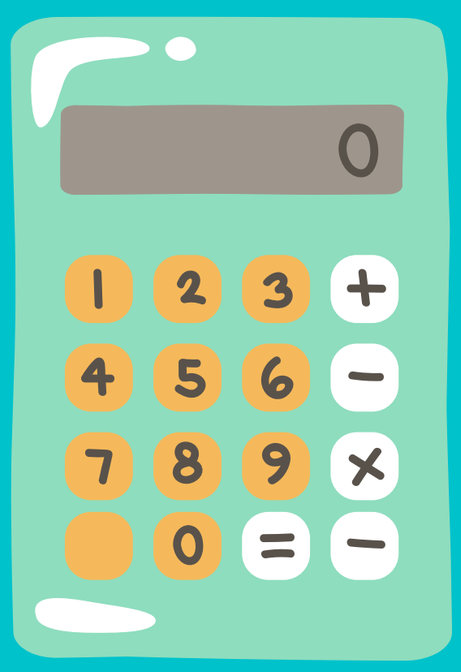
WHAT'S ON THE FAMILY RESOURCE SITE?



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MATH CONVERSATIONS AT HOME

1. What happens when you divide a dollar by 10?
2. When you go shopping do you look at the decimals printed on the items you purchased?
3. How do you add fractions in recipes?

WHAT YOUR STUDENT SHOULD KNOW

Exploring fractions and decimals

Examples:

1/2 = 0.5

3/4 = 0.75

4/5 = 0.8

IREADY REMINDERS

Did you know?

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EDISON ELEMENTARY, A COMMUNITY SCHOOL

MATH CURRICULUM CONNECTION

FIFTH GRADE UNIT TWO

EXAMPLE PROBLEMS

ONES	.	TENTHS	HUNDRETHS
4	.	3	8
0	.	6	0
4	.	9	8

+

So, 4.38 + 0.6 = 4.98

6 tenths is the same as 60 hundredths!

Numbers that can be written as products of 10 are called powers of 10.

The exponent tells how many times to use 10 as a factor.

$10 = 10 = 10^{1}$

$100 = 10 \times 10 = 10^{2}$

$1000 = 10 \times 10 \times 10 = 10^{3}$

MATH CURRICULUM CONNECTION

FIFTH GRADE UNIT THREE

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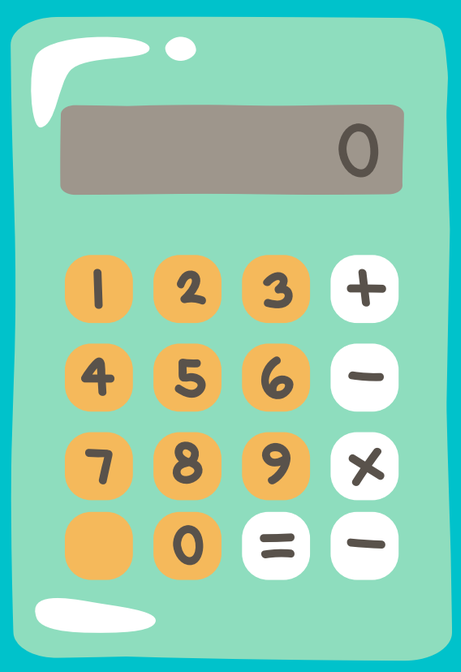

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WHAT YOUR STUDENT SHOULD KNOW

Multi-digit multiplication

Examples:

12x35=420

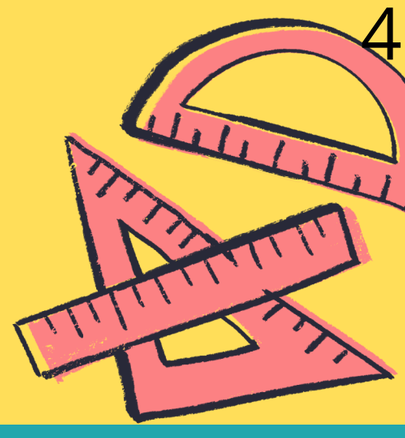
261x14=3,654

MATH CONVERSATIONS AT HOME

1. What kind of decimals can you find at the store?
2. How is a digital scale like a calculator?
3. To split a bill between two people, how would you calculate what each person needs to pay?
4. What are some items that can be shared equally with each of our family members?

IREADY REMINDERS

Did you know?



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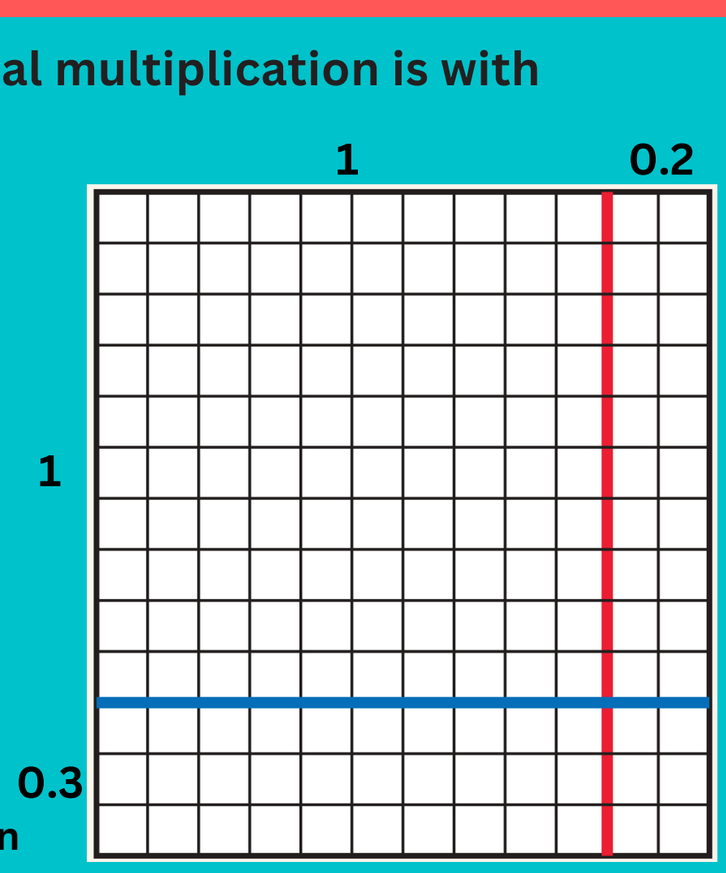
MATH CURRICULUM CONNECTION

FIFTH GRADE UNIT THREE

EXAMPLE PROBLEMS

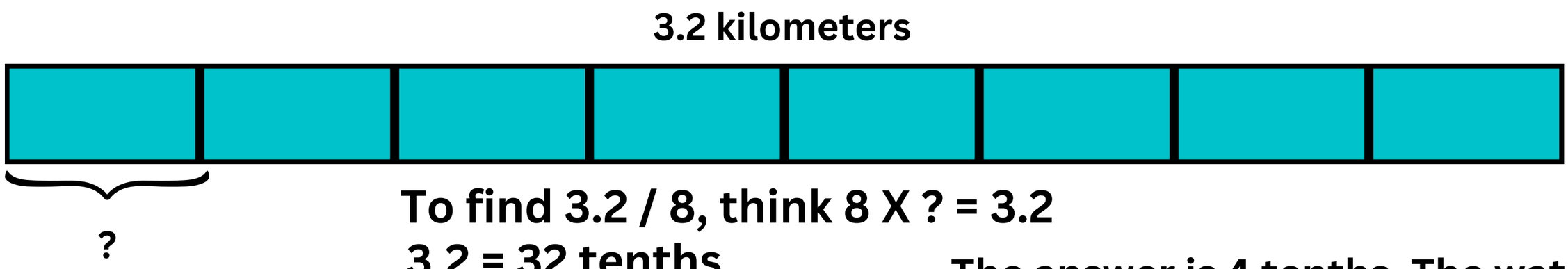
One way your child is learning to show decimal multiplication is with an area model.

The model at the right shows 1.2 x 1.3.
The width of the model represents 1.2.
The length of the model represents 1.3.



Multiply to find the area of each section in the model. Then add the partial products. 1 + 0.2 + 0.3 + 0.06 = 1.56
1.2 X 1.3 = 1.56

Marty is running in a 3.2-kilometer race. Water stations are set up at 8 equal sections of the race. How far apart are the water stations?



To find 3.2 / 8, think 8 X ? = 3.2
3.2 = 32 tenths
8 X ? = 32 tenths
8 X 4 tenths = 32 tenths

The answer is 4 tenths. The water stations are 0.4 kilometers apart.

MATH CURRICULUM CONNECTION

FIFTH GRADE UNIT FOUR

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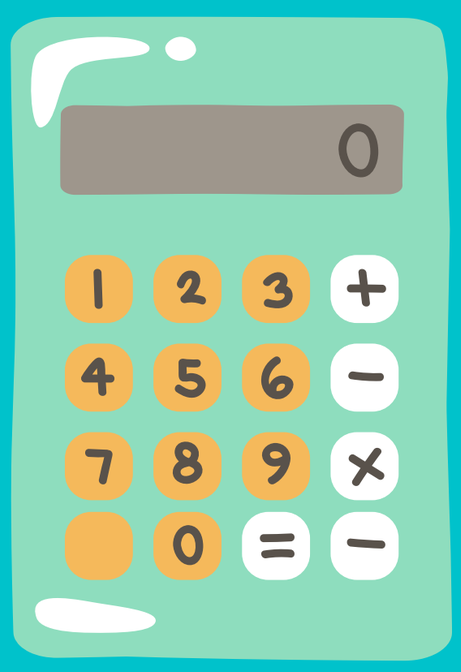

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WHAT YOUR STUDENT SHOULD KNOW

Multi-digit multiplication

Examples:

12x35=420

261x14=3,654

MATH CONVERSATIONS AT HOME

1. What unit of measurement do you use to measure distance?
2. How do you convert miles to kilometers?
3. What kind of data do you collect at work?
4. How would you describe the shape of a door?
5. What are some ways you classify objects at home?

IREADY REMINDERS

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MATH CURRICULUM CONNECTION

FIFTH GRADE UNIT FOUR

Word problems that involve converting units of measurement

Word Problem: Laura is making punch for a party. The recipe calls for 3 1/2 cups of lemonade per batch. Laura wants to make 10 batches of punch. How many gallons of lemonade will she need to buy?

EXAMPLE PROBLEMS

First, convert cups to gallons to find how many cups are needed to make 10 batches of lemonade

$$10 \times 3\,1/2 = 10 \times (3 + 1/2)$$
$$= 10 \times 3 + 10 \times 1/2$$
$$= 30 + 5$$
$$= 35$$

35 cups are need for 10 batches

Convert 35 cups to gallons. Divide the number of cups by 16.

$$35 / 16 = 2\ R\ 3$$

This means Laura will need to buy 3 gallons of lemonade in order to make enough for 10 batches of punch

Convert Measurement Units

1 kilometer describes the same distance as 1,000 meters

4.5 kilometers = ? meters
4.5 x 1,000 = 4,500
4.5 kilometers = 4,500 meters

6,700 = ? meters
4.5 / 1,000 = 6.7
6,700 meters = 6.7 kilometers

MATH CURRICULUM CONNECTION

FIFTH GRADE UNIT FIVE

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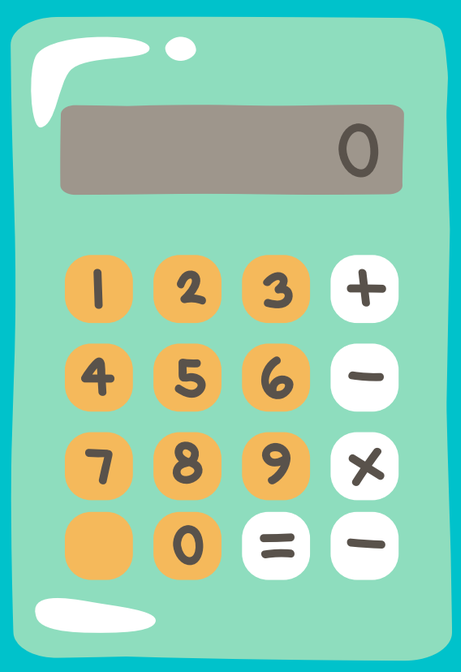

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WHAT YOUR STUDENT SHOULD KNOW

Multi-digit multiplication

Examples:

12x35=420

261x14=3,654

MATH CONVERSATIONS AT HOME

1. What type of situations can you represent with an expression?
2. How do you find a location or an address?
3. Do the streets in our city look like the coordinate plane?

IREADY REMINDERS

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MATH CURRICULUM CONNECTION

FIFTH GRADE UNIT FIVE

EXAMPLE PROBLEMS

Evaluate, Write, and Interpret Expressions

Your child might see and expression like this:
1/2 X (24 + 8)

To evaluate the expression, you first do the operation inside the parentheses. So, first add 24 + 8. Then multiply that sum by 1/2.

1/2 X (24 + 8)
1/2 X 32
16
The value of the expression is 16.

At the school fair, a box of raisins cost $2 and a box of nuts costs $4. How does the cost of a given number of boxes of raisins compare to the cost of the same number of boxes of nuts for 0, 1, 2, 3, or 4 boxes?

Raisins, x	Nuts, y	Ordered Pair (x,y)
0	0	(0,0)
2	4	(2,4)
4	8	(4,8)
6	12	(6,12)
8	16	(8,16)

You can list the numbers, or terms, of the patter in a table and form order pairs of corresponding terms

The second number in each ordered pair is twice the first number