# Handmotions to Accompany 

 Musical Math Vol. 2

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## Greater Than, Fewer Than



## Greater than, that means more!



Bigger number than before! (repeat)


Fewer than, that means less!

Hold up one finger with your hand and wag it in front of you.


Not as many as the rest! (repeat)

Subitize
(Chorus)


Subitizing's when I take a smart guess,

Point to each of the "things" in
front of you like you are counting.


Of how many things are in a set.


I don't have to count cause I can see,


Just how many things are gonna be!

## Subitize

(Verse)

Hold up one finger.


One side of a ten frame filled with dots,


Hold up five fingers.

I know that's five right on the spot!

Point to your head then point to what you are looking at.


I subitize, subitize!
Point to your head then point to what you are looking at.


I subitize, subitize!

## Subitize

(Verse)


The dice show dots in two long lines,


Hold up three
fingers on each hand.

## That's six on each with that design!



## Rekenrek Song

(Chorus)

Point to yourself.


Pat your knees.

Point to yourself.


Pat your knees.

I've got a Rekenrek: math rack!


Hold up five fingers with one hand, then hold up five fingers with the other.


Five on the left, five on the right!

Hold up ten fingers.


That makes ten, it's a math delight!

## Rekenrek Song <br> (Verse)



Slide five beads down and one makes six.


Show two thumbs up!

## Count from five, that's a Rekenrek trick!



Hold up five
fingers with one hand and two fingers with the other.

Slide five beads down and two make seven.


Show two thumbs up!

Count from five, I'm in Rekenrek heaven!

## Rekenrek Song <br> (Verse)



Slide five beads down and three make eight!


Count from five, and the Rekenrek's great!


Hold up five fingers with one hand and four fingers with the other.

Slide five beads down and four make nine!


That's almost ten, and the Rekenrek's fine!

## Rekenrek Song <br> (Verse)



Slide five beads down and five more then,

Put your hand over your eyes on the word, "see."


I can see that makes ten!
(Repeat chorus from the beginning.)

Put your hands out as if you are questioning something.


How many ways can we make four?

Count with your fingers!


Hold up four fingers.


Add it up to four!


Four plus zero equals four!

Hold up four fingers on one hand and zero on the other.


Move your hands together to add the numbers.

Four plus zero equals four!


## Mission Ways to Make Four

Hold up three fingers on one hand and one on the other.


Move your hands together to add the numbers.

Three plus one equals four!

Hold up three fingers on one hand and one on the other.


Move your hands together to add the numbers.

Three plus one equals four!

Hold up your hands above your head.


Add it up to four!

Hold up two fingers on one hand and two on the other.


Hold up two fingers on one hand and two on the other.


Move your hands together to add the numbers.

## Two plus two equals four!



## Mission Ways to Make Four

Hold up one finger on one hand and three on the other.


Move your hands together to add the
 numbers.

One plus three equals four!

Hold up one finger on one hand and three on the other.


Move your hands together to add the numbers.

One plus three equals four!

Hold up your hands above your head.


Add it up to four!

## Mission Ways to Make Four



## What's a Sum?

(Chorus)


To find the sum, sum, help you find the sum,

Gather up all the numbers.


Add those numbers up!


To find the sum, sum, help you find the sum,


## What's a Sum?

Gather up all the numbers.


Add those numbers all together now,

Look around.



To find the sum and you can take a bow,


To find the sum, sum, help you find the sum,


## Counting On with Addition (Chorus)



When you need to add,


## No need to start with one,

With your elbows
at your sides, make fists and make a circular motion to the side with your arms parallel.


Count on from the greater number,


And you're quickly done!

## Counting On with Addition <br> (Verse 1)


(Caller:) Four plus three!
$\bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet$
:


## $\underset{\text { Counting On with Addition }}{\text { (Verse } 3 \text { ) }}$


(Caller:) Three plus nine!

Pretend to pull on a train whistle!
(Caller:)
Start with nine!


Count on!


Count on!

Ten! Eleven! Twelve!

Show three, then six, then nine fingers.

## Counting by Threes

(Chorus) Push your hands forward back and forth.


Three, six, nine, twelve, fifteen, eighteen, hands forward back and forth.

Push right-left-right!
Push right-left-right!


Twenty-one, twenty-four, twenty-seven, thirty,
 three, then thirty six on your fingers as shown.


Thirty-three, thirty-six!

Flip your fingers up and down in time to the music while showing three fingers.


Count by threes!

## Putting Numbers in Order

(Chorus)

Put your arms out in a question pose one at a time.


How do I put the numbers in order?

Point to your head.


What should I do first?

Put your arms out in a question pose one at a time.


How do I put the numbers in order?


What should I do first?


## Putting Numbers in Order

(Verse)

Make a sorting motion.


Sort the numbers into groups,


Touch your cheeks.

Ones and teens and twenties, whoops!


Ones and teens and twenties, whoops!


Watch out for the twelve!


## Putting Numbers in Order

(Verse)


Start with zero, touch and count!


Start with zero, touch and count!


Start with zero, touch and count!


Watch out for the twelve!

## Putting Numbers in Order

 (Verse)

Double check it just for fun!


Where's the 12 and 21?


Where's the 12 and 21?

Wag your finger in front of you.


Check it and you're done!

## Odds and Evens <br> (Chorus)



Even numbers, even numbers,


Put your hands around your
mouth because
you are shouting!

Even numbers, shout them out!


Two, four, six, eight, ten!

## Odds and Evens

With two fingers up, line up both your hands in front of you and sway side to side.


Line them up by twos and then,

Put your arm around your friend next to you.


## All the evens have a friend!



With two fingers up, line up both your hands in front of you and sway side to side.


Put your arm around your friend next to
you.

Even numbers have a friend!


## Odds and Evens <br> (Chorus)

Show one finger on one
hand and two on the other.


When you try to group by twos,


Wag your finger in
front of you.

Make a


One, three, five, seven, nine!


Wag your finger in front of you.

Odd man out, no friend in line!

## Hexagon



Count around you to make a hexagon.

Count those sides on the hexagon block!


One, two, three, four, five, six!


Count those sides, do the dinosaur walk!


One, two, three, four, five, six!

Hold up three fingers on each hand and pump them forward to the beat.


Six sided hexagon! Stomp, stomp, stomp!


Six sided hexagon! Chomp, chomp, chomp!

Walk like a dinosaur to the right.


Walk like a dinosaur! Oh yeah!

Walk like a dinosaur to the left.


Walk like a dinosaur! Oh yeah!

## Trapezoid



Make a trapezoid shape with your hands over your head.


Dance like a robot!

Shaped like a roof, he's a roof robot!

## Trapezoid

Swivel and pivot to the right, and then walk like a robot to the right.

Swivel and pivot to the left, and then walk like a robot to the left.

Swivel and pivot to the right, and then walk like a robot to the right.

Swivel and pivot to the left, and then walk like a robot to the left.

## Walk like a robot! <br>  <br> Trapezoid!

Walk like a robot!


## Android!

Walk like a robot!


Trapezoid!
Walk like a robot!


## Android!

At the end of the song, tell the kids to "power down!" and let yourselves hang "limp," as though someone unplugged the robot.


## Measuring With a Ruler



Measuring, measuring, easy and fun,

Wag your finger in front of you.


Start on the end with a zero or a one!


Zero or one, zero or one,

Wag your finger in front of you.


Start on the end with a zero or a one!

## Measuring With a Ruler

Using your hands against each other display the edge.


Put the end of the ruler on the edge of the toy!


Using your hands against each other, display the edge.

Put that end on the edge of the toy!

Using your hands against each other, display the edge.


Edge of the toy, edge of the toy,

Wag your finger in front of you.


Using your hands against each other, display the edge.

Put that end on the edge of the toy!

## Measuring With a Ruler

Put your hands over your eyes as you are trying to find that number.


Push your hand forward in the "stop" position.

Find the number on the ruler where the toy stops,

Put your hands over your eyes as you are trying to find that number.


Push your hand forward in the "stop" position.

Find the number where the toy stops,

Push your hand forward in the "stop" position.


Where the toy stops, where the toy stops,

Put your hands over your eyes as you are trying to find that number.


Push your hand forward in the "stop" position.

Find the number where the toy stops!

## Measuring With a Ruler

Motion like you are unrolling a measuring tape.


Measuring is easy and fun,

Put your hands over your eyes as you are trying to find that number.


Find the number,

Put your hands out as shown.


Then you're all done!

## The Pattern of the Hundreds Chart

Point to yourself.


Put your hands on your heart.

I can write the numbers all by heart,


Cause I know the pattern of the hundreds chart!
(Caller:)
Let's start with ten and have some fun, 'Cause all the teens, they start with one!

Put your arms out in a question pose


All the teens, they start with one!

The Pattern of the Hundreds Chart
$\qquad$

$A$ one and a zero, a one and a one!
$\qquad$
your fingers
as shown!


A one and a two, a one and a three!
$\qquad$
your fingers
as shown!


A one and a four, a one and a five!
$\qquad$
your fingers
as shown!


A one and a six, a one and a seven!

The Pattern of the Hundreds Chart


A one and an eight, a one and a NINE!
(Caller:) Twenty is next and you know what to do! All the twenties start with two!


Hold up two fingers.

All the twenties start with two!


Two and a zero, two and a one!


## The Pattern of the Hundreds Chart



Count with your fingers as shown!


Two and an eight, two and a NINE!
(Caller:) That's it for the 20's! You're doing fine! 30 is next and as you'll see, all the 30's start with three!

Put your arms out in a question pose one at a time.


Hold up three fingers.

All the thirties start with three!

## The Pattern of the Hundreds Chart



All the teens, they start with one!
(Child:) Hey, I think this makes a pattern!

> Put your arms out in a question pose one at a time.


Hold up two fingers.

All the twenties start with two!

Put your arms out in a question pose one at a time.


All the thirties start with three!

Put your arms out in a question pose one at a time.


Hold up four fingers.

## All the forties start with four!



The Pattern of the Hundreds Chart

(Child:) Hey, what's after that?
(Caller:) That's one hundred! One, zero, zero!


That's one hundred! One, zero, zero! (repeat)


That's one hundred! One, zero, zero! (repeat)

## 12 vs. 21

Wag your finger in front of you.


## Number 12 will not trick you!

Show the correct amount of fingers each time!


First $a$ one and then a two!

Show the correct amount of fingers each time!


First a one and then a two!

Roll your hands and then point to the left, but with a sign language $L$ instead of a thumb.


Point to the left, making an $L$ with your fingers!

Starting on the left!

## 12 vs. 21

Wag your finger in front of you.


Careful with the 21!

Show the correct amount of fingers each time!

Show the correct amount of fingers each time!


First a two and then a one!

Roll your hands and then point to the left, but with a sign language L instead of a thumb.


Point to the left, making an $L$ with your fingers!

Starting on the left!

## Counting Backwards from 20

Use your thumbs to point behind you.
 Backwards from 20, we are counting backwards,


Backwards from 20, and it goes like this:


Hop!

$$
20,19,18,17,16,15,14, \text { HOP! }
$$

Push your hand forward as if to
"Swim" forward
sweeping your arm out in front of you.

$13,12,11,10,9,8,7,6,5,4,3,2,1$. STOP!

## Counting Backwards from 20

Roll your hands!


## Let's go! Do it again!



## Telling Time is Easy

Point to your watch!

Point to a pretend watch on your left wrist.


Telling time is easy!

Point to a pretend watch on your right wrist.

Point to a pretend watch on your right wrist.

Brush your thighs and then swing your thumb out because it's time to go.


And it's time to go tell time!

## Telling Time is Easy

Put both hands up as shown to act like a clock with both hands
up.


When the big hand's on the 12,

Put both hands around the mouth as if you are shouting.


Say o'clock and you'll do well!

Put both hands on the six, as shown,


When the big hand's on the six,

Put both hands around the mouth as if you are shouting.


Put both hands out as if to say, "That's all!"


## Telling Time is Easy

Make your hand go round like a clock.

Small hand tells the hours!


## Small hand tells the hours!

Continue as before.

Small hand tells the hours!

Thumb a ride to show where you are going.
And it's time to go tell time!



## One Fourth

Show just one finger and then four.


One fourth means just one of four!

While holding up four fingers on one hand, take the other and touch each one of the four fingers.


One of four equal parts!

Show just one finger and then four.


One fourth means just one of four!

While holding up four fingers on one hand, take the other and touch each one of the four fingers.


One of four equal parts!

## One Fourth

Pretend to knock on


Pizza man comes to the door,

Point to yourself, and then show one finger, and then four.


I just get one slice of four!

Put your hands on your cheeks to indicate surprise.


That's a quarter of the pie,

Put one hand after another on your tummy to indicate that you are still hungry, and rock back and forth with your hands on your tummy.


I'm still hungry! My, oh, my!




## Adding Numbers to Ten

Show one finger and then three fingers.


One stack of ten and three more,


How much could it be?

Show one finger and then three fingers.


One stack of ten and three more,


How much could it be?

## Adding Numbers to Ten

(Continued)

## (Caller:) Put ten in your head and count three more. Ready, set? Here we go!

Show ten fingers.
Then touch an eleventh finger, a twelfth, and a thirteenth finger in time with the music.

(Caller:) Great job! Now let's try it again. With a stack of ten, and five more. Ready, set? Here we go!

## Adding Numbers to Ten



One stack of ten and five more,


How much could it be?


One stack of ten and five more,


How much could it be?

## Adding Numbers to Ten

(Continued)

## (Caller:) Put ten in your head and count five more. Ready, set? Here we go!

Show ten fingers.
Then touch an eleventh finger, a twelfth, and a theirteenth finger in time with the music.

(Kids:) TEN! 11, 12, 13, 14, 15.
(Caller:) I think you know it. How much is

(Kids:) 15!
(Caller:) Very good! Alright! Do you think you've got it? Here we go! Here we go!

## Adding Numbers to Ten

(Continued)
(Caller:) Ten plus six.

Put your hands around your mouth, as if you are shouting.
Optional: Show the correct amount of fingers.

(Kids:) 16!
(Caller:) Ten plus four!

(Kids:) 14!


## Adding Numbers to Ten

(Continued)
(Caller:) Ten plus one.

Put your hands around your mouth, as if you are shouting.
Optional: Show the correct amount of fingers.

(Kids:) 11!
(Caller:) Ten plus seven!

(Kids:) 17!
(Caller:) Ten plus nine!

(Kids:) 19!

## Adding Numbers to Ten

(Continued)
(Caller:) Ten plus three.

Put your hands around your mouth, as if you are shouting. Optional: Show the correct amount of fingers.

(Caller:) Ten plus zero!

(Child:) Hey, you're tricking us! That's still ten!
(Caller:) I couldn't trick you. Let's try one more: ten plus ten!

(Kids:) 20!

## So Many Ways to Solve a Problem

Walk around in a circle, waving hands around randomly.


So many ways to solve a problem,
Walk around in a circle, waving hands around randomly.


So many ways, so many ways!


## Addition! Subtraction! (Caller:) Think about it first! Are we putting things together?

Pretend to be gathering things.

(Kids echo each time:) Putting things together?

## So Many Ways to Solve a Problem

Pretend to grab things and take them away, putting them behind you.

(Caller:) Or taking away? Or taking away?

Put your hands over your eyes because you are inspecting some-
thing.

(Caller:) Check it, inspect it! Check it, inspect it.

Put your hands around your mouth as you SAY something.

(All:) And this is what we say. We can:

Pretend to draw.


## (Caller:) Draw a little picture! <br> Draw a little picture!

## So Many Ways to Solve a Problem

Pretend to<br>hold up a num-<br>ber line.


(Caller:) Use a number line! Use a number line!
(Caller:) Count it on a tens frame!
Count it on a tens frame!
cunt hangon
atens frane.

Make tally marks in the
air.

(Caller:) Tally marks are fine!
Tally marks are fine!
Pretend to slide some conters around with your
fingers.

(Caller:) Use a bunch of counters!
Use a bunch of counters!

So Many Ways to Solve a Problem

Put your hands
around your face
and bob back
and forth as
shown.

(Caller:) Act it out for fun! Act it out for fun!

Shake your finger in front of you.


All: Double check your answer.
Now you're done!

## Keywords for Addition

(Drill Sargeant:) Alright! These are keywords for addition. Listen up!

Bop your head back and forth in time to the music as shown.


Keywords for addition! Keywords for addition!

Put your hand over your eyes as you are watching for the words.


Pretend to be gathering things.

Whenever you see them, then you've got to add.

Put your hand over your eyes as you are watching for the words.


Watch for the words, watch for the words!

Point to your head as you are trying to memorize all of the words.


Here we go, got to memorize them all!

## Keywords for Addition

Point forward at two things on the word "both."


Put your hands out as shown on the words, "in all."
(Drill Sargeant:) Repeat: Both! Both! In all! In all!

Clap your hands together on the word, "together."


Circle your hands ALL the way around and clap them together again on the word, "altogether."

# (Drill Sargeant:) Together! Together! Altogether! Altogether! 

Flip your palms facedown on the word, "Sum."


Bring your hands together on the word, 'total."

(Drill Sargeant:) Alright, that's pretty good. But you'd better do it again!

## Keywords for Subtraction



Show something really big on the word, "more."


Show something really tiny on the word, "less."

How many more than, how many less than?

Pretend to grab things and take them away, putting them behind you.


Means subtract! Means subtract!

Show something really tiny on the word, "less."


Show something really small in the palm of your hand on the word "less."

## Keywords for Subtraction

Scratch your head, as if you are thinking.


Pretend to grab things and take them away, putting them behind you.

What's the difference? Means subtract!

Show something really big on the words, "greater" and "bigger."


## (Rapper:) Take the greater number;

 that's the biggest one!Show something really small on the words, "lesser" and "smallest."


## Subtract the lesser number: That's the smallest one!

## Keywords for Subtraction

Put your hands out to the sides as shown, one at a time.

(Rapper:) Now you have the difference, Now you have the range!

With your hands out, rock back and forth right and left in time to the music.


It's more than, less than,
With your hands out, rock back and forth right and left in time to the music.


Fewer, less, and now subtract!

## (All repeat from the beginning)

## Get on the Tens' Bus

(Chorus)

Show one finger, and then nine fingers.


This is the Ones' Place, only room for nine!

Wave your hands with nine fingers showing back and forth in time to the music.


Put your thumbs up on the word, "fine." Then count with your fingers from one to nine.

Nine or fewer, nine or less! This apartment's fine!

Count with your fingers from one to nine.

(etc.)


One, two, three, four, five, six, seven, eight, or nine!

Show one finger, and then nine fingers.


This is the Ones' Place, only room for nine!

## Get on the Tens' Bus

(Apartment Manager:) Hey! This is the manager. How many people live here?
(Child:) Well, there were only nine of us, but then my mom had a baby. Nine plus one equals ten!
(Apartment Manager:) TEN? That's too many for the Ones' Place Apartments!
You gotta move on out!
Swing your thumb to the right each time you say, "Move on out!" indicating that they have to leave.


Move on out! Move on out! Move on out! Move on out!

Put your hands around your mouth to help you SHOUT each time you say the rhyming name.

(Manager:) You gotta move on out! (All:) Scout! (Manager:) Get on the Tens' Bus! (All:) Gus! (Manager:) To the Tens' Place! (All:) Ace!

When you say,
"Guinevere!" then wiggle your fingers!!

(Manager:) You can't live here! (All:) Guinevere!

Get on the Tens' Bus
(Chorus)
Show one finger, and then nine


This is the Ones' Place, only room for nine!


Nine or fewer, nine or less! This apartment's fine!


One, two, three, four, five, six, seven, eight, or nine! fingers.


This is the Ones' Place, only room for nine!

## Get on the Tens' Bus

(Apartment Manager:) Hey! This is the manager again. How many people live here now?
(Child:) Well, there were only eight of us, but then my uncle and aunt and two cousins moved in! Eight plus four equals 12 !
(Apartment Manager:) 12? That's too many for the Ones' Place Apartments! You gotta move on out!


Move on out! Move on out! Move on out! Move on out!

Put your hands around your mouth to help you SHOUT each time you say the rhyming name.

(Manager:) You gotta move on out! (All:) Scout! (Manager:) Get on the Tens' Bus! (All:) Gus! (Manager:) To the Tens' Place! (All:) Ace!

When you say,
"Guinevere!" then
wiggle your fingers!!


Do the twist!
Do the twist!
Twist down and then when you say, 'the digits are worth!"

(Chorus)
Twist down and up!


Place value tells you how much the digits are worth, Place value tells you how much the digits are worth, Point to the right. Then show one finger when you say, "Ones' place."


Start on the right, it's called the ones' place.
Point your thumb to the left. Then show ten fingers on the word, "Ten." Cross your arms on the word "place."


Move to the left, that's called the tens' place!
Point your thumb to the left. Then pat your shoulders when you say, "hundreds' place."


Pat your shoulders.


Slide left again, you're in the hundreds' place!
Point your thumb to the left. Then shake your hands over your head.


Hop left once more, now that's the thousands' place!

## What is Place Value?

Show one finger, then pat your legs on, "It's value is one!"


A one in the ones' place, it's value is one.


A one in the tens' place, it's value is ten!


A one in the hundreds' place, it's value is 100 !
Show one finger, then shake your hands over your head.


A one in the thousands' place, it's value is 1,000 !

## What is Place Value?

Show five fingers, then pat your legs on, "It's value is." Then show five fingers again on the word, "five."


A five in the ones' place, it's value is five. Show five fingers, then ten fingers. Then cross your arms on the word, "fifty."


A five in the tens' place, it's value is 50 !

Show five fingers, then pat your shoulders from the word hundreds on.


Pat your shoulders.


A five in the hundreds' place, it's value is 500!
Show five fingers, then shake your hands over your head.


A five in the thousands' place, it's value is 5,000 ! (Repeat chorus)

## What is Place Value?

Pat your legs on "ones." Cross your arms on "tens."
Pat your shoulders on "hundreds." Shake your hands overhead on thousands.


Ones! Tens! Hundreds! Thousands!

Pat your legs on "ones." Cross your arms on "tens."
Pat your shoulders on
"hundreds."
Shake your hands
overhead on thousands.


Ones! Tens! Hundreds! Thousands!

