

To 10 and Beyond

Session 348 • 2012 NCTM Annual Meeting • Philadelphia, PA

Ten Frame / Five Frame

<http://illuminations.nctm.org/ActivityDetail.aspx?ID=75>

<http://illuminations.nctm.org/ActivityDetail.aspx?ID=74>

Grouping and Grazing

<http://illuminations.nctm.org/ActivityDetail.aspx?ID=218>

Okta's Rescue

<http://illuminations.nctm.org/ActivityDetail.aspx?ID=219>

Concentration

<http://illuminations.nctm.org/ActivityDetail.aspx?ID=73>

How Many Under the Shell?

<http://illuminations.nctm.org/ActivityDetail.aspx?ID=198>

Salute

<http://www.youtube.com/watch?v=tT3AUUvRgVQ>

Magic Ten

Tallies, Ten Frames, and Baseball Games

<http://illuminations.nctm.org/LessonDetail.aspx?ID=L876>

Let's Count to 10

<http://illuminations.nctm.org/LessonDetail.aspx?ID=U147>

How Many Letters Are in Your Name?

<http://illuminations.nctm.org/LessonDetail.aspx?ID=L869>

Dynamic Paper

<http://illuminations.nctm.org/ActivityDetail.aspx?ID=205>



<http://illuminations.nctm.org>

This sine has
three errors.

To 10 and Beyond



G. Patrick Vennebush

April 27, 2012

Magic Ten

- The deck has only 1-9.
- No 10, J, Q or K.



10 cards = 1 decacards

Today's Agenda

All compliments of the...



- Classroom Activities
 - in stations
- Lesson Plans
- Online Apps

My Classroom



Stations

- **Magic Ten**

- Card trick with sums of 10

- **Salute**

- Figure out which card you have

- **Chip Trading**

- Roll dice, collect chips, trade 'em in

- **Bean Counting**

- Count as many as your partner rolls

Pick a station... have fun!

Why is 10 Important?



Magic Ten

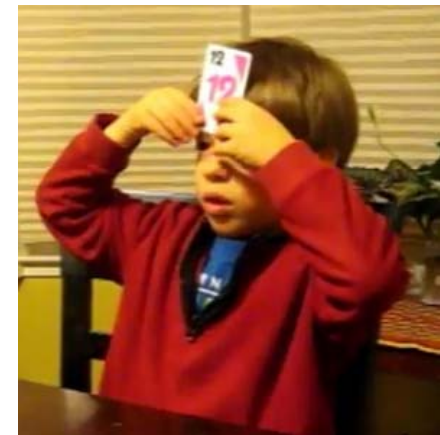
- Formative Assessment: Card Trick
- Summative Assessment: Activity Sheet

Salute

- Find addends (sum)
- Find factors (product)
- Give difference (careful!)
- Use as a basic counting game...



*For numbers before
and after their cards.*



How Many Under the Shell?

How Many Under the Shell?

Select a number of bubbles
or choose "random" to let
Okta pick for you.

start 



1	2	3	+	-
4	5	6	+ or -	
7	8	9		
random 				



Chip Trading

- Change the base
- Trade 5 chips...
 - It's a five frame
- Trade 2 chips...
 - Then it's an odd/even game
- Do base 10 first!

One-Minute Challenge

- From an Article in *Teaching Children Math*
- Created Okta's Rescue...



illuminations.nctm.org



Illuminations

The web site currently contains...

- 605 Lessons
- 107 Interactive Tools

On average, 450,000 visitors per month

- August 2004 – 93,371
- February 2012 – 632,910

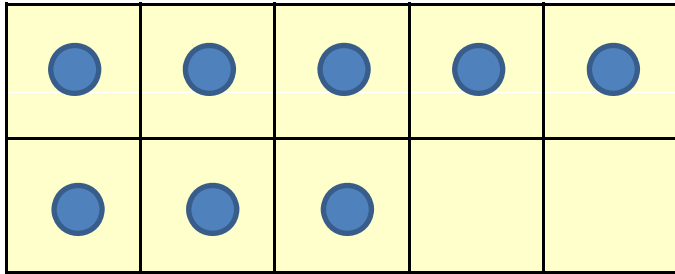
Illuminations

New in 2012...

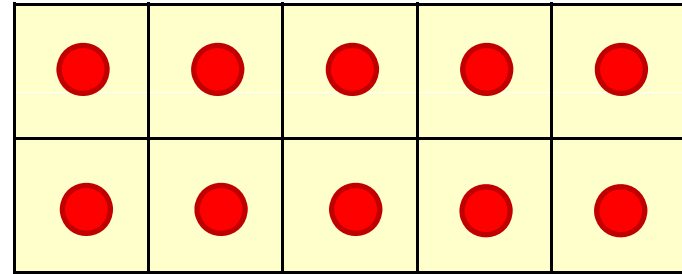
- 2 mobile apps
 - 1 based on web app
 - 1 completely new app
- 1 new Calculation Nation™ game
- 10 lessons

Ten Frames, Baseball Games

- Philadelphia Phillies



Wins



Losses

Ten Frames, Baseball Games

- Tell me three things about our tally chart...

Wins

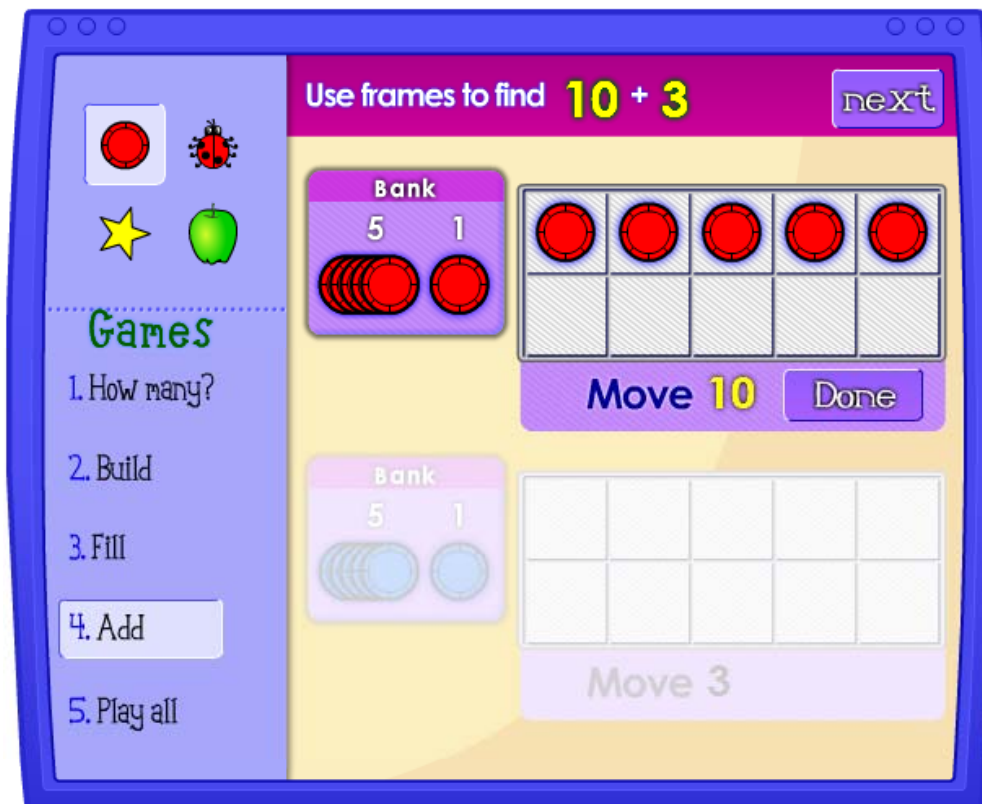
||||
|||

Losses

||||
||||

Ten Frames

- Five and Ten Frame Apps



Grouping and Grazing



How Many Letters in Your Name?

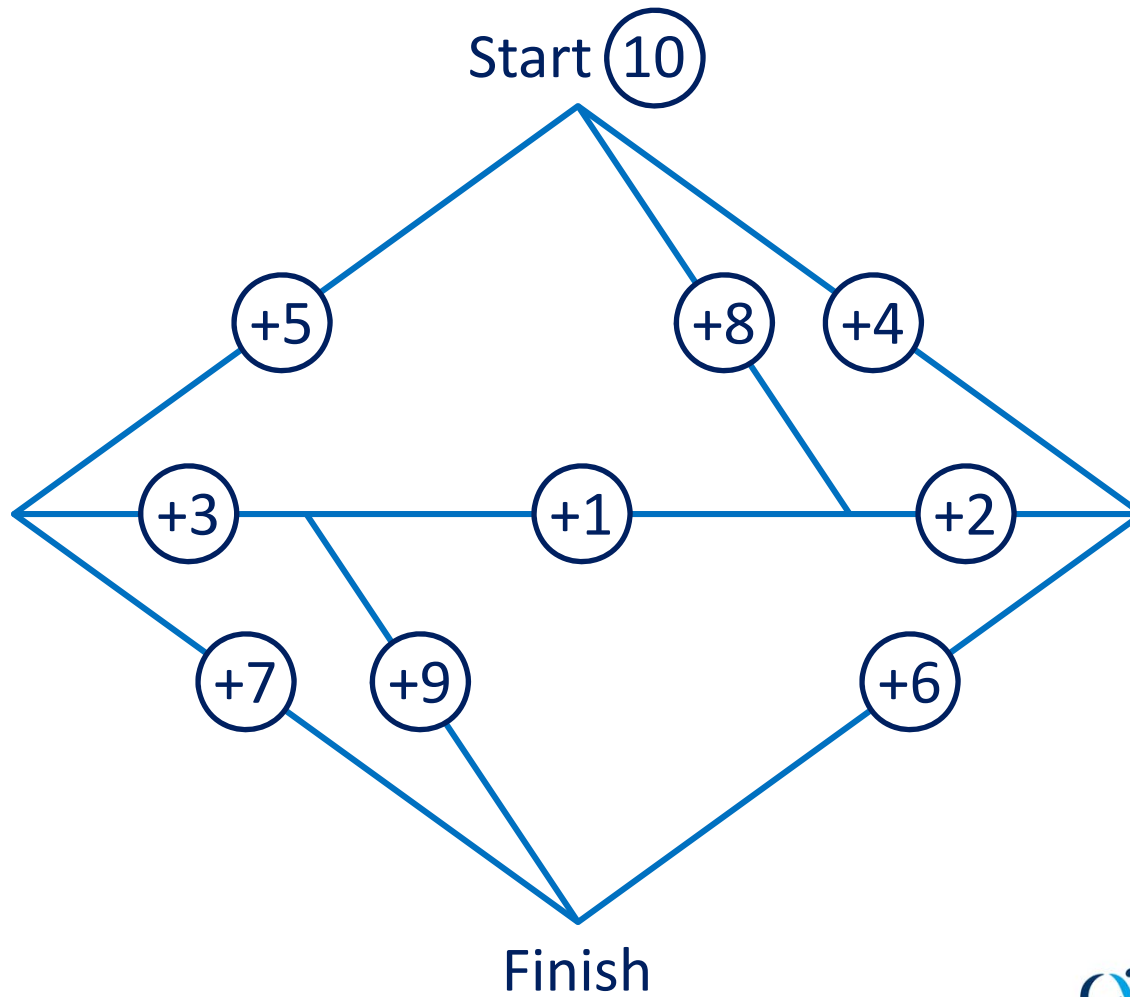
- What state name has the most letters?
- What state name has the least letters?
 - [State Data Map](#)



Concentration



Number Maze



Dynamic Paper

- To make nets — and other things!

Nets
Graph Paper
Number Lines
Number Grids

Tessellations
Shapes
Spinners
Help

Number Grids

Reset
Add >>

Start Number:

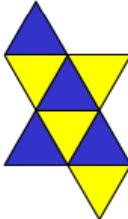
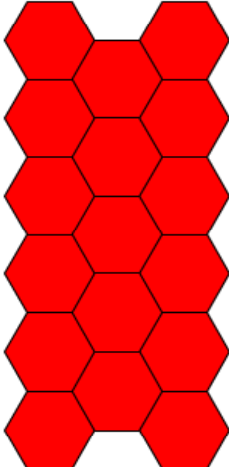
End Number:

Number of Columns:

Units: inches centimeters

Side Length: in.

Cool Stuff NAME _____





1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25

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Wrap-Up

- Questions?
- Comments?
- **Compliments?**
- Complaints?



Wrap-Up

Thank You!



NATIONAL COUNCIL OF
TEACHERS OF MATHEMATICS

Engaging (and Free) Online Resources for the Middle Grades



April 12, 2012

G. Patrick Vennebush