Sciencenter
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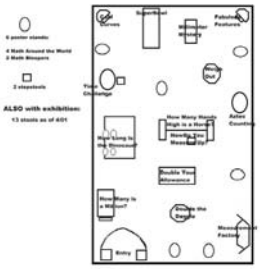
www.sciencenter.org
www.sciencenterexhibits.org

Fun, 2, 3, 4:

all about a number of things!



Fun, 2, 3, 4 exhibition

Possible layout for 30' x 50' room.

Whether it's measuring, graphing or estimating, this traveling math exhibition will help visitors apply math to everyday activities. Learn how to double your allowance, count like the Aztecs, or team up with a partner and take our time challenge.

Designed for 5-12 year olds and their families.

Partners: TEAMS Collaborative; funded by NSF

www.sciencenterexhibits.org

Rental Fee: $13,500/3 months

Size: 1,750 sq.ft.

Shipping: fits in 1 semi-trailer *renter pays inbound*

Rental managed by Sciencenter > 2004

Entry

Enter the exhibition by passing underneath a parabolic archway spanning two base units. Be sure to collect a family guide for the exhibition on your way in.

Aztec Counting

We use place values like ones, tens, and hundreds to represent numbers. The Aztecs of Mexico used a combination of symbols and counted in base 20. The one unit looks like a finger, the twenty unit looks like a flag, and the 400 unit looks like a feather. Can you translate your age by using Aztec symbols? Try another number.

Cool Curves

Planets orbit the sun in an oval shape called an ellipse. Water from a fountain forms an arch called a parabola. "Cool Curves" is a computer game that allows you to identify common shapes and curves, like the ellipse and parabola, that appear in nature.

Double the Doggie

Can you double the length, width and height of the doggie? Using a model made of 13 cubes, it would actually take 104 cubes to "Double the Doggie." Try for yourself!

Double Your Allowance

If you had a choice, would you choose to receive a dollar a week (100 pennies) or one penny that doubles each week? One hundred pennies may seem like more, but you'll be surprised when you see how big your allowance could be after 12 weeks.

Fabulous Features

How special are you? Three out of four people can curl their tongue, can you? This computer exhibit has you examine six simple genetic features, then tells you how many people are like you!

Fun 2,3,4 Exhibit Descriptions

How long is the dino?

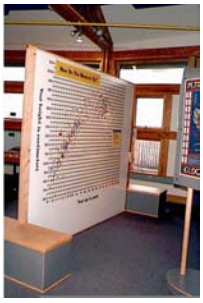
You've measured the height of the horse with your hands. Now, measure the length of the dino using your feet. Grab a partner and count the number of your feet it takes you to walk from the head of the dino to the tail. Were your answers the same? Think of the confusion if everything was measured with a different "foot." This is another reason why we use the Metric System.

How many is a million?

The goal of "How many is a million" is to teach the concept of large numbers. You can turn a wheel to continue your museum's ongoing quest to reach one million. On the one millionth turn, a glass goblet located in the exhibit will smash.

One in a million?

Check out this clear tube full of one million small beads. Spin the tube and see if you can find the one black bead. Can you count the beads?



How do you measure up?

At what age do people grow fastest? At what age do people stop growing taller? You can help to answer these questions. First, find your age and height on the graph. Place a dot where the two meet. Now step back and look at the giant graph. What assumptions can you make?

How many hands high is a horse?

Grab a partner. Measure the height of the horse using your hands. Now compare your answer to your partner's. Are they different? Think of the confusion if everyone measured with a different "hand." That is why many countries have agreed to use one set of measures called the Metric System.

Math Bloopers

Do you think the graphs shown in this exhibit are fair, or presented to make something look much better than it really is? Flip up the curtain to see how these graphs ought to have been shown. Watch out for mis-used math.

Math Around the World Posters

Various cultures used numbers or computed in different ways. Enjoy these beautiful posters that describe the Math of Russia, of India, of the Aztecs, etc.

Measurement Factory

Have you ever noticed how useful graphing is? Ms. Measurooni asks you to measure yourself by finding your height, weight, and grip strength. When you're all finished, compare yourself on the graphs, then be sure to print your own Measurement Factory certificate to take home.

Millimeter Mystery

We can feel tiny differences. Did you know that you may actually be able to guess the height of a peg within 0.1 millimeter or the thickness of a piece of heavy paper? Using your finger, can you guess the height of the peg? Compare with examples, then check your answer on the wheel. How close did you come?

Super Bowl

This game allows you to make a graph. Roll a tennis ball down the lane aiming for the center of the backboard. Did you hit the center mark? How close did you come? Watch the pattern of lights showing you where your balls hit.

Time Challenge

Stand on one side of the exhibit and choose the button closest to you. Grab a partner and have him/her stand by the other button. Ready, Go! Push the buttons down. As a team, your goal is to count 15 seconds. When you release the button, the time appears. How close did you come? Try again, it gets easier.

Weigh Out

Can you tell the difference in weight of these wooden pegs? First, line up the pegs from lightest to heaviest. Place them in the holder and lift the handle. Did the colors match up? If so, you were right. Now try the second set of pegs. Was it easier or harder? The round pegs are 10 grams apart and the square pegs weigh 15 grams apart. Therefore, it should be easier to arrange the square pegs.