

1

00:00:00,000 --> 00:00:06,420

Do not try any of the experiments you are about to see at home.

2

00:00:06,420 --> 00:00:07,420

You heard him.

3

00:00:07,420 --> 00:00:08,420

Don't do it.

4

00:00:08,420 --> 00:00:16,820

Ladies and gentlemen, welcome to Battle of the Sexes 2, where mythbusters pit men against

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00:00:16,820 --> 00:00:20,020

women to determine myth from fact.

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00:00:20,020 --> 00:00:26,100

You'll probably disagree with our results, so let's get ready to grumble.

7

00:00:27,100 --> 00:00:36,740

Yep, on this controversial episode of Mythbusters, there's a contentious collection of classic

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00:00:36,740 --> 00:00:37,740

cliches.

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00:00:37,740 --> 00:00:39,740

You throw like a girl.

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00:00:39,740 --> 00:00:42,500

First up, are guys really the fling kings?

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00:00:42,500 --> 00:00:44,540

Blow down there cowboy.

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00:00:44,540 --> 00:00:46,540

Then men lost.

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00:00:46,540 --> 00:00:49,420

Will a man ever ask for help?

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00:00:49,420 --> 00:00:51,460

This is fantastic.

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00:00:51,460 --> 00:00:55,620

Next, are women really the multitasking masters?

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00:00:55,620 --> 00:01:01,620

And finally, in a parallel park off, it's Park Got Gedan.

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00:01:01,620 --> 00:01:05,620

Do you have a license?

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00:01:05,620 --> 00:01:09,620

Who are the mythbusters?

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00:01:09,620 --> 00:01:10,620

Adam Savage.

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00:01:10,620 --> 00:01:11,620

Now I'm ready.

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00:01:11,620 --> 00:01:13,620

And Jamie Heineman.

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00:01:13,620 --> 00:01:14,620

This is going to kill you.

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00:01:14,620 --> 00:01:22,620

Between them more than 30 years of special effects experience, together with Tori Galeici.

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00:01:22,620 --> 00:01:23,620

That was insane.

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00:01:23,620 --> 00:01:24,620

They're going to be Grant Imaherra.

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00:01:24,620 --> 00:01:25,620

Who wants some?

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00:01:25,620 --> 00:01:26,620

And Carrie Byron.

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00:01:26,620 --> 00:01:27,620

Right to over the job.

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00:01:27,620 --> 00:01:36,620

They don't just tell the myths, they put them to the test.

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00:01:41,620 --> 00:01:48,620

Duck, cover, and get ready to sleep on the sofa, because war will be waged.

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00:01:49,620 --> 00:01:58,620

The last time the team battled for supremacy of the sexes, they debunked five freshest fables.

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00:01:58,620 --> 00:02:04,620

Driving, grilling, backing the car, navigating, and emotional cues.

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00:02:04,620 --> 00:02:06,620

It's flirty and emotion.

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00:02:06,620 --> 00:02:08,620

It's blushing and emotion.

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00:02:08,620 --> 00:02:15,620

And with two ends apiece and one myth tied, the mythbusters are once again declaring a war on error.

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00:02:15,620 --> 00:02:18,620

I can tell from the way they're driving, there's probably a woman.

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00:02:18,620 --> 00:02:23,620

First off, a pitched battle of the sexes.

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00:02:23,620 --> 00:02:27,620

Well you probably heard it, I definitely heard it when I was a kid.

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00:02:27,620 --> 00:02:30,620

It is the classic schoolyard taunt.

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00:02:30,620 --> 00:02:31,620

You throw like a girl.

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00:02:31,620 --> 00:02:32,620

I never heard it.

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00:02:32,620 --> 00:02:34,620

Well that's because you never took gym.

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00:02:34,620 --> 00:02:35,620

I took art class.

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00:02:35,620 --> 00:02:36,620

Smart.

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00:02:36,620 --> 00:02:41,620

At any rate, it's an insult and a terrible thing to say to someone, but it does raise a genuine question.

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00:02:41,620 --> 00:02:44,620

And one we think is worth answering here on Mythbusters.

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00:02:44,620 --> 00:02:51,620

And this is the question, is there a measurable difference between the way a man throws a ball and a woman throws a ball?

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00:02:51,620 --> 00:02:52,620

Exactly.

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00:02:53,620 --> 00:02:54,620

I got it!

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00:02:55,620 --> 00:02:58,620

It's an age old playground put down.

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00:02:58,620 --> 00:03:06,620

When it comes to playing with balls, specifically tossing them around, girls are purportedly the paragons of poor pitching.

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00:03:06,620 --> 00:03:12,620

To find out, Adam and Jamie are instigating an interest species throwdown.

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00:03:12,620 --> 00:03:16,620

And we're about to do something on this episode that's a little bit different than the path we would normally take.

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00:03:16,620 --> 00:03:21,620

Normally we just get 10 men, 10 women, take them out on a baseball diamond and start them throwing.

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00:03:21,620 --> 00:03:22,620

See what happens.

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00:03:22,620 --> 00:03:31,620

But we've done a ton of research into this story and if it's true that men and women throw differently, there are a million different theories and questions around the why.

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00:03:31,620 --> 00:03:32,620

Is it cultural?

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00:03:32,620 --> 00:03:33,620

Is it innate?

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00:03:33,620 --> 00:03:34,620

Is it genetic?

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00:03:34,620 --> 00:03:35,620

Does it show up at a certain age?

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00:03:35,620 --> 00:03:37,620

Let the throwing begin.

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00:03:39,620 --> 00:03:40,620

Sorry.

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00:03:41,620 --> 00:03:43,620

It's a multifaceted question.

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00:03:43,620 --> 00:03:45,620

What is a good throw?

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00:03:45,620 --> 00:03:48,620

How do you measure it and who does it better?

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00:03:48,620 --> 00:03:55,620

To zone in on the science, Adam and Jamie have hit the gym and set up a state of the smart mob lab.

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00:03:55,620 --> 00:03:58,620

So how do you qualitatively measure someone's throwing ability?

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00:03:58,620 --> 00:04:03,620

In the jungle, when you want to kill something in order to eat it, you've got to be both fast and accurate.

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00:04:03,620 --> 00:04:05,620

So speed and accuracy are our two metrics.

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00:04:05,620 --> 00:04:08,620

But when we've researched other tests similar to this,

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00:04:08,620 --> 00:04:13,620

it's been said that when you stress accuracy, people slow down their pitch in order to hit the target.

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00:04:13,620 --> 00:04:14,620

We don't want that.

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00:04:14,620 --> 00:04:16,620

We want them throwing as hard as they can.

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00:04:16,620 --> 00:04:21,620

So what we're telling them is throw as hard as you can at the yellow box.

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00:04:21,620 --> 00:04:27,620

With accuracy best described as a lottery in motion, I don't feel like you and I are very good at throwing.

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00:04:27,620 --> 00:04:28,620

No, we're not.

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00:04:28,620 --> 00:04:35,620

And a less than impressive slow ball, Adam and Jamie clearly need help understanding the art of throwing.

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00:04:35,620 --> 00:04:38,620

Cue Major League pitcher, Greg Reynolds.

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00:04:39,620 --> 00:04:43,620

If we're going to spend the rest of this episode assessing people's ability to throw,

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00:04:43,620 --> 00:04:46,620

we need a top level control to compare them against.

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00:04:46,620 --> 00:04:49,620

That's where the guy behind me comes in and he's going to show us how it's really done.

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00:04:51,620 --> 00:04:53,620

Yeah, like that.

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00:04:53,620 --> 00:04:59,620

With his 90 mile an hour fastball, Greg nails the center of the target every time.

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00:04:59,620 --> 00:05:07,620

And when it's slowed down and analyzed, it's clear that the perfect pitch is a complicated, biophysical ballet.

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00:05:07,620 --> 00:05:09,620

It's all about timing when you're talking about pitching.

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00:05:09,620 --> 00:05:15,620

And so from your feet all the way to the end of your fingertips, you want to start that chain reaction and keep them all on time.

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00:05:15,620 --> 00:05:17,620

Wow, it's kind of like a dance.

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00:05:17,620 --> 00:05:18,620

Yeah.

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00:05:18,620 --> 00:05:28,620

So this is the perfect pitching technique and it requires years of practice and an elite physical ability to combine 90 miles per hour speed

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00:05:28,620 --> 00:05:30,620

and pinpoint accuracy.

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00:05:30,620 --> 00:05:35,620

But do men naturally do it better to find out it's time to hit it on.

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00:05:35,620 --> 00:05:39,620

And so now we've hit the men against the women, but not in the way we normally would.

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00:05:39,620 --> 00:05:43,620

We just gather a bunch of random 20 something volunteers out of the local paper.

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00:05:43,620 --> 00:05:47,620

This time we are pitting groups of people from different ages against each other.

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00:05:47,620 --> 00:05:52,620

This way we can compare and see if there's a difference not only between men and women,

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00:05:52,620 --> 00:05:57,620

but whether that exists across every age or whether it happens at certain stages developmentally.

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00:05:57,620 --> 00:06:03,620

So Adam and Jamie have selected four pairs of average Joe's and Josephine's,

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00:06:03,620 --> 00:06:04,620

Hi Zoe,

99

00:06:04,620 --> 00:06:07,620

to go head to head in a pitch battle.

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00:06:07,620 --> 00:06:12,620

We'll be gauging the throwing ability of our test subjects according to two primary metrics.

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00:06:12,620 --> 00:06:13,620

Mine will be speed.

102

00:06:13,620 --> 00:06:18,620

I'll be behind the net here with my savage radar gun logging how fast they throw.

103

00:06:18,620 --> 00:06:24,620

And I'll be back here judging the accuracy of the throw on a scale of one to five.

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00:06:24,620 --> 00:06:27,620

Now we won't be judging anyone on a single throw.

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00:06:27,620 --> 00:06:32,620

All we want you to do is take that ball and throw it right at the yellow square as hard as you can.

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00:06:32,620 --> 00:06:33,620

Okay.

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00:06:33,620 --> 00:06:36,620

No, we're actually going to let them warm up and then we're going to be averaging their accuracy

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00:06:36,620 --> 00:06:40,620

and choosing their best speed from the multiple throws that they'll do.

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00:06:40,620 --> 00:06:44,620

With our first pint sized pitcher warmed up and raring to go.

110

00:06:44,620 --> 00:06:46,620

Okay, hold on there.

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00:06:46,620 --> 00:06:47,620

Slow down there cowboy.

112

00:06:47,620 --> 00:06:53,620

Jamie begins officially scoring and averaging Zoe's accuracy across five throws.

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00:06:53,620 --> 00:06:55,620

A bullseye scores five.

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00:06:55,620 --> 00:06:59,620

The inner square four all the way down to zero for a complete miss,

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00:06:59,620 --> 00:07:01,620

which Zoe is not doing.

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00:07:01,620 --> 00:07:02,620

Excellent.

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00:07:02,620 --> 00:07:07,620

Meanwhile, Adam monitors for Zoe's single fastest throw.

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00:07:07,620 --> 00:07:08,620

She's good.

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00:07:08,620 --> 00:07:11,620

With the girls first impressive score on the board,

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00:07:11,620 --> 00:07:16,620

Thomas steps up, winds up and gives it his best shot for team men.

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00:07:16,620 --> 00:07:17,620

Excellent.

122

00:07:17,620 --> 00:07:18,620

That's the spirit.

123

00:07:18,620 --> 00:07:22,620

But when he's done and the numbers are in, Adam, for one, is surprised.

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00:07:22,620 --> 00:07:24,620

I love this kind of counterintuitive result.

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00:07:24,620 --> 00:07:29,620

We're testing throws like a girl and it's supposed to be some kind of insult that girls can't throw as good as boys.

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00:07:29,620 --> 00:07:34,620

But our very first test subjects, while the boy threw a little bit faster than our girl,

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00:07:34,620 --> 00:07:36,620

she smoked him in terms of accuracy.

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00:07:36,620 --> 00:07:37,620

He was all over the map.

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00:07:37,620 --> 00:07:39,620

She was going right for the center.

130

00:07:39,620 --> 00:07:40,620

It was great.

131

00:07:40,620 --> 00:07:46,620

Up next are the 12 year olds and Cara continues the impressive start by the lady lovers.

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00:07:46,620 --> 00:07:50,620

Her top speed of 31 miles per hour.

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00:07:50,620 --> 00:07:52,620

She throws a heater.

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00:07:52,620 --> 00:07:57,620

And an accuracy average of 3.75 lays down a mean marker.

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00:07:57,620 --> 00:07:58,620

Nice.

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00:07:58,620 --> 00:08:03,620

But when Aaron steps up and flings a few fierce and fast balls,

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00:08:03,620 --> 00:08:06,620

it's apparent that a trend is emerging.

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00:08:06,620 --> 00:08:11,620

One that continues with the remaining two pairs of age match pitchers.

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00:08:11,620 --> 00:08:16,620

The guys are throwing faster, but the girls are hitting the target more accurately.

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00:08:16,620 --> 00:08:20,620

But only the final tally will tell the full tale.

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00:08:20,620 --> 00:08:23,620

The results are in and they're really pretty interesting.

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00:08:23,620 --> 00:08:29,620

The females as it happens are more accurate than the males by 17%.

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00:08:29,620 --> 00:08:34,620

But in the speed department, the boys were able to throw 15% faster than the girls.

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00:08:34,620 --> 00:08:37,620

And now it's like these two numbers cancel each other out.

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00:08:37,620 --> 00:08:43,620

But watching them, it strikes me that there may be more than speed and accuracy to how people throw.

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00:08:43,620 --> 00:08:47,620

To that end, back when Jane and I worked in special effects,

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00:08:47,620 --> 00:08:52,620

we frequently utilized a technology that we think might give us the best view yet

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00:08:52,620 --> 00:08:56,620

on whether or not there's a difference between the way men throw and the way women throw.

149

00:08:56,620 --> 00:08:58,620

You ready to get out of here?

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00:08:58,620 --> 00:08:59,620

Let's do it.

151

00:08:59,620 --> 00:09:00,620

All right.

152

00:09:01,620 --> 00:09:08,620

Next up, the conflict continues with an age-old argument.

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00:09:08,620 --> 00:09:11,620

All right, first up for us is a classic.

154

00:09:11,620 --> 00:09:14,620

Women are better multitaskers than men.

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00:09:14,620 --> 00:09:16,620

I mean, like juggling many different activities at once.

156

00:09:16,620 --> 00:09:17,620

Exactly.

157

00:09:17,620 --> 00:09:24,620

When it comes to performing several tasks at once, the fairer sex supposedly has more flair.

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00:09:24,620 --> 00:09:28,620

But is it scientific fact or urban folklore?

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00:09:29,620 --> 00:09:30,620

All right, this should be cool.

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00:09:30,620 --> 00:09:33,620

Let's build the ultimate multitasking test.

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00:09:33,620 --> 00:09:38,620

We'll get 20 volunteers, 10 men, 10 women, and we'll have them both juggle all sorts of activities at once.

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00:09:38,620 --> 00:09:42,620

Maybe we could do something like getting ready for work, making the bed, getting dressed, making lunch,

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00:09:42,620 --> 00:09:46,620

watching the kid, and getting out the door in time to get to work.

164

00:09:46,620 --> 00:09:47,620

That's a good idea.

165

00:09:47,620 --> 00:09:50,620

Welcome to the multitask assault course.

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00:09:50,620 --> 00:09:57,620

A set of simultaneous tasks that will test the volunteers' chore juggling skills to the limit.

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00:09:57,620 --> 00:10:01,620

So we've set up a scenario of getting ready and getting out the door as soon as possible.

168

00:10:01,620 --> 00:10:03,620

So you have to get out of bed, make the bed.

169

00:10:03,620 --> 00:10:06,620

Then you're going to grab your clothes, you're going to iron them, and then you're going to get dressed.

170

00:10:06,620 --> 00:10:08,620

You're going to wear your shirt, your pants, and your shoes.

171

00:10:08,620 --> 00:10:11,620

Then it's time to make breakfast and get lunch to go.

172

00:10:11,620 --> 00:10:16,620

You've got toast or toast, put butter on it, make yourself a cup of tea, all the while while making yourself a sandwich

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00:10:16,620 --> 00:10:18,620

that includes lettuce, tomato, ham, cheese, mustard, and mayonnaise.

174

00:10:18,620 --> 00:10:21,620

Put it in a bag, get it ready to go.

175

00:10:21,620 --> 00:10:26,620

While you're doing that, you've got to answer the phone, answer any questions we have for you,

176

00:10:26,620 --> 00:10:31,620

and make sure Baby Buster doesn't make it out the door all before the timer runs out.

177

00:10:31,620 --> 00:10:36,620

With the room ready to roll, the subjects are introduced to the format and thoroughly briefed.

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00:10:36,620 --> 00:10:40,620

Hello everyone, and welcome to the MythBusters morning challenge.

179

00:10:40,620 --> 00:10:44,620

But crucially, they're kept in the dark about the aim of the test.

180

00:10:44,620 --> 00:10:49,620

They're given instructions on the chores they have to perform and nothing more.

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00:10:49,620 --> 00:10:51,620

However, Carrie's in the know.

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00:10:51,620 --> 00:10:54,620

Alright, for this experiment, we have 20 test subjects.

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00:10:54,620 --> 00:10:56,620

We have 10 men and 10 women.

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00:10:56,620 --> 00:10:59,620

Now they have to complete all of their tasks in a set amount of time,

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00:10:59,620 --> 00:11:02,620

but they can't do all of these tests one at a time.

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00:11:02,620 --> 00:11:05,620

Some of them have to be done simultaneously, like you have to wait for the toast or toast.

187

00:11:05,620 --> 00:11:07,620

You have to wait for the iron to heat up.

188

00:11:07,620 --> 00:11:09,620

There should not be a very easy task to do.

189

00:11:11,620 --> 00:11:13,620

Especially for Tori.

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00:11:14,620 --> 00:11:19,620

To score the tricky Tori-proof test, each testee starts with 100

191

00:11:19,620 --> 00:11:23,620

and has penalized 10 points for every multi-tasking infraction.

192

00:11:23,620 --> 00:11:26,620

And first up and out of bed is Linda.

193

00:11:26,620 --> 00:11:27,620

Go!

194

00:11:27,620 --> 00:11:29,620

There's only five minutes on the clock,

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00:11:29,620 --> 00:11:34,620

so managing the myriad of tasks simultaneously is the only route to success.

196

00:11:34,620 --> 00:11:39,620

And by immediately turning on all the appliances, she's off to a great start.

197

00:11:39,620 --> 00:11:41,620

Looks like the baby's awake.

198

00:11:41,620 --> 00:11:43,620

Come here, baby buster. You're coming with me.

199

00:11:43,620 --> 00:11:45,620

But it's about to get a lot tougher.

200

00:11:45,620 --> 00:11:50,620

While ensuring baby buster never leaves the marked safety zone unattended,

201

00:11:50,620 --> 00:11:52,620

a sandwich lunch has to be made.

202

00:11:52,620 --> 00:11:57,620

Toast and tea attended to, and then there's the first of three calls from Carrie.

203

00:11:57,620 --> 00:11:59,620

Hello?

204

00:11:59,620 --> 00:12:01,620

10 times 4 divided by 2.

205

00:12:01,620 --> 00:12:02,620

10 times 4, 20.

206

00:12:02,620 --> 00:12:03,620

Well done.

207

00:12:03,620 --> 00:12:07,620

They're not difficult questions, but they're hard to do when you're doing like three things at once.

208

00:12:07,620 --> 00:12:09,620

Yep, it's an all-out mental workout.

209

00:12:09,620 --> 00:12:13,620

The thing that's great about this test is it stimulates so many different parts of the brain

210

00:12:13,620 --> 00:12:15,620

using all these different challenges.

211

00:12:15,620 --> 00:12:21,620

You've got motor skills, you've got verbal skills, communication, doing math problems,

212

00:12:21,620 --> 00:12:23,620

all different parts of the brain.

213

00:12:23,620 --> 00:12:29,620

And as the myth would suggest, our first lady, Linda, is coping spectacularly well.

214

00:12:29,620 --> 00:12:36,620

Ironing while tending the baby and tackling the trivia is just one of her many multi-tasking successes.

215

00:12:36,620 --> 00:12:37,620

Hello?

216

00:12:37,620 --> 00:12:40,620

You have red paint, you mix yellow and blue paint.

217

00:12:40,620 --> 00:12:42,620

What color is the paint you originally had?

218

00:12:42,620 --> 00:12:43,620

Red?

219

00:12:43,620 --> 00:12:44,620

Perfect.

220

00:12:44,620 --> 00:12:47,620

And with time in hand, Linda calmly completes the course.

221

00:12:47,620 --> 00:12:50,620

Okay, come on baby buster, time to go to school.

222

00:12:50,620 --> 00:12:52,620

Giving the girls a great start.

223

00:12:52,620 --> 00:12:55,620

Linda, well done.

224

00:12:55,620 --> 00:13:00,620

You have a perfect score of 100 points with three seconds to spare.

225

00:13:00,620 --> 00:13:04,620

But that single data point only tells Linda's story.

226

00:13:05,620 --> 00:13:08,620

To compare women against men, start.

227

00:13:08,620 --> 00:13:10,620

An average across a larger sample is needed.

228

00:13:10,620 --> 00:13:14,620

Alright, that's a quick start and made the bed right away.

229

00:13:14,620 --> 00:13:20,620

And as the nine remaining female volunteers cope with the confusion of the concurrent shores,

230

00:13:20,620 --> 00:13:22,620

one thing is clear to Tori.

231

00:13:22,620 --> 00:13:25,620

I'm starting to think there might be something to this myth.

232

00:13:25,620 --> 00:13:26,620

She caught him.

233

00:13:26,620 --> 00:13:29,620

Unbelievable, she makes the save.

234

00:13:29,620 --> 00:13:33,620

It was so interesting to see how these women tackled the test.

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00:13:33,620 --> 00:13:37,620

Oh yeah, there were variations in their abilities and how many mistakes they made.

236

00:13:37,620 --> 00:13:41,620

What is nine times three plus three?

237

00:13:41,620 --> 00:13:43,620

I don't know.

238

00:13:43,620 --> 00:13:48,620

But overwhelmingly, the women were able to focus while multitasking.

239

00:13:48,620 --> 00:13:49,620

I'm impressed.

240

00:13:49,620 --> 00:13:54,620

Yep, with all the women successfully dressed, the team is duly impressed.

241

00:13:55,620 --> 00:13:57,620

Yeah!

242

00:13:57,620 --> 00:14:04,620

Which just leaves all ten of the scores to be tallied and totaled into an imposing average of 72.

243

00:14:04,620 --> 00:14:08,620

I think a score of 72 is going to be pretty tough to beat.

244

00:14:08,620 --> 00:14:12,620

I mean, I saw a bunch of competent women doing what they do every day,

245

00:14:12,620 --> 00:14:15,620

handle a ton of stuff all at once and do it with style.

246

00:14:15,620 --> 00:14:21,620

I think we might be kicking some stubborn, dogmatic, linear, thinking male butt coming up here.

247

00:14:21,620 --> 00:14:23,620

But I'm not biased or anything.

248

00:14:23,620 --> 00:14:25,620

We're coming up on MythBusters.

249

00:14:25,620 --> 00:14:27,620

It's the coolest technology ever.

250

00:14:27,620 --> 00:14:32,620

Adam and Jamie shine some industrial light and magic on the myth of the man throw.

251

00:14:36,620 --> 00:14:44,620

If men are from Mars and women from Venus, this episode of MythBusters is the war of the worlds.

252

00:14:44,620 --> 00:14:49,620

Where Adam and Jamie are testing the contentious taunt you throw like a girl.

253

00:14:49,620 --> 00:14:53,620

And so far, the myth is looking like a misogynist, Miss Snowman.

254

00:14:53,620 --> 00:14:54,620

Excellent.

255

00:14:54,620 --> 00:14:58,620

Because the girls may have less power, but they're more accurate.

256

00:14:58,620 --> 00:15:02,620

But the MythBusters aren't done with this complicated controversy just yet.

257

00:15:02,620 --> 00:15:08,620

Their lab laboratory just got a double-barreled blast of motion picture science.

258

00:15:08,620 --> 00:15:13,620

We're here at Industrial Light and Magic, the preeminent visual effects company in the world.

259

00:15:13,620 --> 00:15:17,620

Over the last 37 years, they've had their hand in around 300 films.

260

00:15:17,620 --> 00:15:20,620

Now Adam and I used to work here and we've pulled a favor.

261

00:15:20,620 --> 00:15:25,620

We've asked for access to some very special visual effects technology.

262

00:15:26,620 --> 00:15:27,620

Special indeed.

263

00:15:27,620 --> 00:15:30,620

It's Native the Art motion picture technology.

264

00:15:30,620 --> 00:15:34,620

And the guys will use it to illustrate the motion of pitching.

265

00:15:34,620 --> 00:15:37,620

This is the Industrial Light and Magic motion capture stage.

266

00:15:37,620 --> 00:15:38,620

What is motion capture, you ask?

267

00:15:38,620 --> 00:15:45,620

Well, it is a technology that allows the digital artists here at ILM to take a human's performance and render it digitally.

268

00:15:45,620 --> 00:15:48,620

All I need to do is wear a crazy suit.

269

00:15:54,620 --> 00:16:01,620

And the dots all over this suit are being picked up by cameras around this room and turning me into a 3D rendered stick frame right there.

270

00:16:01,620 --> 00:16:02,620

Look at that.

271

00:16:02,620 --> 00:16:04,620

Oh, technology.

272

00:16:04,620 --> 00:16:06,620

I have made a full stick frame.

273

00:16:07,620 --> 00:16:08,620

I love this place.

274

00:16:09,620 --> 00:16:12,620

A place uniquely geared for the next experiment.

275

00:16:12,620 --> 00:16:16,620

A visual and anatomical analysis of motion.

276

00:16:16,620 --> 00:16:18,620

You look like a ninja.

277

00:16:18,620 --> 00:16:19,620

Let's go.

278

00:16:19,620 --> 00:16:25,620

Each of the throwers will be rendered into 3D digital skeletons for an accurate comparison.

279

00:16:25,620 --> 00:16:34,620

What they're doing is putting these little reflective markers all over Zoe and it gives us a very clear geometrical understanding of the movement of her joints,

280

00:16:34,620 --> 00:16:38,620

which is what we need to have to be able to analyze how she's throwing.

281

00:16:38,620 --> 00:16:39,620

Perfect.

282

00:16:39,620 --> 00:16:40,620

High five.

283

00:16:40,620 --> 00:16:41,620

Thanks so much for your help.

284

00:16:41,620 --> 00:16:42,620

You're welcome.

285

00:16:42,620 --> 00:16:50,620

Once Adam, Jamie and the ILM team capture the action from the two youngest pitchers, it's the turn of the 24 year olds.

286

00:16:50,620 --> 00:16:57,620

And when they're all transformed into 3D digital skeletons, it's the coolest technology ever.

287

00:16:57,620 --> 00:17:02,620

The comparisons can begin, starting with the 7 year olds.

288

00:17:02,620 --> 00:17:11,620

We've analyzed the day we got from the motion capture of the 7 year olds and there's already, even at that age, a pretty clear difference in how they throw.

289

00:17:11,620 --> 00:17:16,620

The boy is going more horizontal with his body while the girl is staying mostly upright.

290

00:17:16,620 --> 00:17:20,620

This difference is much more clearly exemplified in the 24 year olds.

291

00:17:20,620 --> 00:17:25,620

Yep, and a comparison of the adults in action shows the difference is down to rotation.

292

00:17:25,620 --> 00:17:32,620

The girls bend forward at the hips, whereas the guys twist aggressively through the hips and shoulders.

293

00:17:32,620 --> 00:17:36,620

Mechanically speaking, it's a method that delivers much more momentum.

294

00:17:36,620 --> 00:17:38,620

But where does the difference come from?

295

00:17:38,620 --> 00:17:43,620

There are a couple of theories as to why men would move differently than the female.

296

00:17:43,620 --> 00:17:45,620

One is that they're just bigger and more powerful.

297

00:17:45,620 --> 00:17:53,620

The other one is that females evolve to carry children and so they're not going to move quite as aggressively.

298

00:17:53,620 --> 00:18:01,620

But in any case, these are two people that are not trained as ball players and there's a very distinct difference on how they're moving.

299

00:18:01,620 --> 00:18:03,620

That's the crucial point.

300

00:18:03,620 --> 00:18:12,620

Our volunteers have had no explicit training and yet when seen in digital detail, the guys technique more closely resembles that of our professional pitcher.

301

00:18:12,620 --> 00:18:18,620

Question is, do boys simply pick it up by being exposed to more ball sports?

302

00:18:18,620 --> 00:18:21,620

Adam and Jamie have one more test to find out.

303

00:18:22,620 --> 00:18:24,620

We gotta go. They're shutting this building down.

304

00:18:24,620 --> 00:18:25,620

Really?

305

00:18:25,620 --> 00:18:26,620

Told ya.

306

00:18:26,620 --> 00:18:27,620

Wow.

307

00:18:31,620 --> 00:18:37,620

Women, supposedly the master multitaskers, have fired a formidable first shot.

308

00:18:39,620 --> 00:18:44,620

So we've tested 10 women and they've done really well. Their average is 72 points.

309

00:18:45,620 --> 00:18:46,620

Welcome!

310

00:18:46,620 --> 00:18:51,620

Now it's time for the men to do the same challenge and see how well they do.

311

00:18:51,620 --> 00:18:52,620

Fight!

312

00:18:52,620 --> 00:19:00,620

And first, a fight like a man is Malcolm. But from the get up and go, it's clear his approach is distinctly linear.

313

00:19:00,620 --> 00:19:03,620

He's wasting a lot of time going from the counter to the floor.

314

00:19:03,620 --> 00:19:09,620

Yep, he's not so much multitasking as tackling each task sequentially.

315

00:19:09,620 --> 00:19:10,620

Hello.

316

00:19:10,620 --> 00:19:14,620

There are seven colors in the rainbow. What is 2 plus 2?

317

00:19:15,620 --> 00:19:16,620

4.

318

00:19:16,620 --> 00:19:23,620

In a test designed to reward multitasking, stopping and taking the phone call costs precious seconds.

319

00:19:23,620 --> 00:19:26,620

As does a stop and start babysitting technique.

320

00:19:26,620 --> 00:19:27,620

Down you go.

321

00:19:27,620 --> 00:19:31,620

All of which means he didn't have time to finish making his sandwich.

322

00:19:32,620 --> 00:19:34,620

Oops. Don't know how to do that.

323

00:19:34,620 --> 00:19:37,620

His breakfast or get dressed properly.

324

00:19:37,620 --> 00:19:38,620

Oh no.

325

00:19:38,620 --> 00:19:41,620

Two, one, out.

326

00:19:41,620 --> 00:19:46,620

A combination of multiple infractions that leaves him with a score of just 50 points.

327

00:19:46,620 --> 00:19:51,620

An ominous sign for the men. They have to up their game to get in the game.

328

00:19:51,620 --> 00:19:54,620

That's the farthest he's gotten.

329

00:19:54,620 --> 00:20:01,620

But as the clock and cameras roll for the nine remaining contestants, it's clear the guys are out of their death.

330

00:20:01,620 --> 00:20:02,620

Sorry?

331

00:20:02,620 --> 00:20:04,620

A few perform as well as the girls.

332

00:20:04,620 --> 00:20:07,620

Juggling obstacles like the phone and buster.

333

00:20:07,620 --> 00:20:08,620

Hello.

334

00:20:08,620 --> 00:20:13,620

If a squared plus b squared equals c squared, how do you spell green?

335

00:20:13,620 --> 00:20:17,620

G, R, E, M.

336

00:20:17,620 --> 00:20:18,620

Perfect.

337

00:20:18,620 --> 00:20:20,620

Multitasking I've seen all the time.

338

00:20:20,620 --> 00:20:21,620

Yes!

339

00:20:21,620 --> 00:20:23,620

Cognition, shoes, phone.

340

00:20:23,620 --> 00:20:24,620

Saves the baby.

341

00:20:24,620 --> 00:20:27,620

But most are one thing at a time kind of guys.

342

00:20:27,620 --> 00:20:28,620

Hello?

343

00:20:28,620 --> 00:20:30,620

Uh...

344

00:20:30,620 --> 00:20:36,620

Jobs that can be tackled simultaneously become a series of time consuming interruptions.

345

00:20:36,620 --> 00:20:39,620

What is two plus two times three?

346

00:20:44,620 --> 00:20:50,620

And with points deducted for incomplete tasks, at reach time buster escapes his safe zone.

347

00:20:50,620 --> 00:20:52,620

That's an infraction.

348

00:20:52,620 --> 00:20:53,620

You have kids?

349

00:20:53,620 --> 00:20:54,620

No, I don't.

350

00:20:54,620 --> 00:20:55,620

Thank God.

351

00:20:55,620 --> 00:20:57,620

The poor scores are racking up.

352

00:20:57,620 --> 00:21:00,620

Add with buster packed off for school one last time,

353

00:21:00,620 --> 00:21:03,620

Tori is ready and waiting with the crunch numbers.

354

00:21:03,620 --> 00:21:05,620

Drum roll please.

355

00:21:05,620 --> 00:21:06,620

So the results are in.

356

00:21:06,620 --> 00:21:10,620

The women came away with an average of 72 points.

357

00:21:10,620 --> 00:21:13,620

While the men came away with an average of 64 points.

358

00:21:13,620 --> 00:21:15,620

So it looks like this myth is confirmed.

359

00:21:15,620 --> 00:21:18,620

Ooh, so women can multitask better than men.

360

00:21:18,620 --> 00:21:19,620

Confirmed.

361

00:21:19,620 --> 00:21:20,620

Totally confirmed.

362

00:21:20,620 --> 00:21:21,620

Alright, confirmed.

363

00:21:21,620 --> 00:21:23,620

The numbers don't lie.

364

00:21:23,620 --> 00:21:27,620

The average accurately reflects the girls' multitasking mastery.

365

00:21:27,620 --> 00:21:32,620

Meaning this myth, just like baby buster, has been put to bed.

366

00:21:36,620 --> 00:21:37,620

Next on Mythbusters.

367

00:21:37,620 --> 00:21:38,620

I'm so lost.

368

00:21:38,620 --> 00:21:42,620

Men, are they really incapable of asking for help?

369

00:21:53,620 --> 00:21:57,620

Before Adam and Jamie wrap up their high tech tossing tail.

370

00:21:57,620 --> 00:21:59,620

It's the coolest technology ever.

371

00:21:59,620 --> 00:22:04,620

They're going to tackle a marital skirmish that never fails to escalate.

372

00:22:05,620 --> 00:22:09,620

When the man of the car is lost and not found.

373

00:22:09,620 --> 00:22:15,620

Suburban folklore would have us believe that there's one thing his pride will prevent him from doing.

374

00:22:17,620 --> 00:22:20,620

But Jamie's lost and he's asking for directions.

375

00:22:20,620 --> 00:22:23,620

That is the opposite of what most people think a man would do in this situation.

376

00:22:23,620 --> 00:22:29,620

In fact, there's a prevalent myth that men bullheadedly refused to ask for directions when they get lost.

377

00:22:29,620 --> 00:22:33,620

It's a myth that we are going to put to the test right in this episode.

378

00:22:33,620 --> 00:22:34,620

Think you know where we are?

379

00:22:34,620 --> 00:22:35,620

Yep, I'm good.

380

00:22:35,620 --> 00:22:36,620

Excellent.

381

00:22:36,620 --> 00:22:37,620

Here we go.

382

00:22:41,620 --> 00:22:44,620

And after a quick change into something a little more comfortable,

383

00:22:44,620 --> 00:22:49,620

the plan to test this contentious cliché is simple and sneaky.

384

00:22:49,620 --> 00:22:55,620

A bunch of volunteers stripped of GPS technology or maps will be misdirected and lost.

385

00:22:55,620 --> 00:23:00,620

And Adam and Jamie will monitor them to see who stops for help.

386

00:23:00,620 --> 00:23:04,620

The volunteers won't know this, but the test actually starts right here.

387

00:23:04,620 --> 00:23:07,620

All you have to do is follow these directions to get there.

388

00:23:07,620 --> 00:23:11,620

Now the first set of instructions they'll be getting is correct.

389

00:23:11,620 --> 00:23:16,620

But by the time they get to this intersection, we've given them a left turn that totally doesn't exist.

390

00:23:16,620 --> 00:23:23,620

This is ground zero where they're going to get lost, and we have seeded the entire area with volunteers.

391

00:23:23,620 --> 00:23:26,620

If they ask for directions, these guys are going to give them to them.

392

00:23:26,620 --> 00:23:33,620

So the driving draftees will be asked to find their way from here to here using a series of written instructions.

393

00:23:33,620 --> 00:23:37,620

But one deliberately false directive, a non-existent almond street,

394

00:23:37,620 --> 00:23:42,620

will ensure that by the time they hit this intersection, they'll be lost.

395

00:23:42,620 --> 00:23:44,620

And that's where the fun begins.

396

00:23:47,620 --> 00:23:51,620

Immediately after they start driving, I'll be hiding in this blind corner right around the corner

397

00:23:51,620 --> 00:23:58,620

so I can follow them at a reasonable distance and see exactly when they ask for directions, if they ask for directions.

398

00:23:58,620 --> 00:24:02,620

To find out, our first lady has given her instructions.

399

00:24:02,620 --> 00:24:04,620

And away we go.

400

00:24:04,620 --> 00:24:10,620

As she pulls away, Adam, at a discrete distance behind, drops into position on her tail.

401

00:24:10,620 --> 00:24:15,620

The setup might seem elaborate, but it's important that the drivers don't know they're being tested.

402

00:24:15,620 --> 00:24:18,620

We don't want to affect their behavior in any way.

403

00:24:18,620 --> 00:24:19,620

Chasing our volunteer.

404

00:24:19,620 --> 00:24:26,620

Once they reach the non-existent almond street, we want to see how long it would naturally take for them to pull over and ask for help.

405

00:24:26,620 --> 00:24:28,620

And here we go.

406

00:24:31,620 --> 00:24:37,620

Despite dutifully following the instructions, our willing volunteer is now officially lost.

407

00:24:37,620 --> 00:24:39,620

Subject is just past the intersection.

408

00:24:39,620 --> 00:24:41,620

Subject is past the intersection.

409

00:24:41,620 --> 00:24:43,620

We're like secret agents.

410

00:24:43,620 --> 00:24:44,620

Emerald.

411

00:24:45,620 --> 00:24:47,620

That is almond.

412

00:24:48,620 --> 00:24:50,620

Let's... burn it.

413

00:24:50,620 --> 00:24:51,620

Okay.

414

00:24:51,620 --> 00:24:56,620

And after a quick U-turn reveal, she really is lost in Deepa's darkest suburbia.

415

00:24:56,620 --> 00:24:58,620

Um... let's see.

416

00:24:58,620 --> 00:25:00,620

It's the other direction.

417

00:25:00,620 --> 00:25:03,620

Test subject number one does the sensible thing.

418

00:25:03,620 --> 00:25:06,620

She pulls over and asks for help.

419

00:25:08,620 --> 00:25:09,620

Excuse me.

420

00:25:09,620 --> 00:25:10,620

Hi, I'm sorry.

421

00:25:10,620 --> 00:25:11,620

Can you help me?

422

00:25:11,620 --> 00:25:12,620

Please, I'm looking for almond.

423

00:25:12,620 --> 00:25:14,620

That's one zip to the girls.

424

00:25:14,620 --> 00:25:16,620

Now, how about the guys?

425

00:25:16,620 --> 00:25:19,620

According to the myth, they don't give up so easily.

426

00:25:19,620 --> 00:25:23,620

Cat and mouse with test subjects are my favorite sport.

427

00:25:23,620 --> 00:25:26,620

Once again, the driver is thrown for a loop.

428

00:25:28,620 --> 00:25:32,620

And the team on his tail waits to see what he does.

429

00:25:32,620 --> 00:25:35,620

And what he does is get stressed.

430

00:25:35,620 --> 00:25:37,620

Oh my God, I definitely need to turn around.

431

00:25:39,620 --> 00:25:41,620

Perform several U-turns.

432

00:25:41,620 --> 00:25:43,620

He's going back to his original route.

433

00:25:43,620 --> 00:25:48,620

Okay, we started over on each one.

434

00:25:48,620 --> 00:25:50,620

Get stressed some more.

435

00:25:52,620 --> 00:25:55,620

Oh God, this is ridiculous.

436

00:25:55,620 --> 00:25:59,620

And stubbornly, adamantly refuses to ask for help.

437

00:25:59,620 --> 00:26:01,620

He is intrepid, that's for sure.

438

00:26:01,620 --> 00:26:06,620

And he is fulfilling every stereotype about a man driving.

439

00:26:07,620 --> 00:26:08,620

Ah, I'm gonna be...

440

00:26:08,620 --> 00:26:09,620

Oh, sh**.

441

00:26:09,620 --> 00:26:10,620

Make it off again.

442

00:26:14,620 --> 00:26:19,620

It's now been like 13 or 14 minutes.

443

00:26:19,620 --> 00:26:23,620

Okay, turning around, I just ran away with the Miss Buster's car.

444

00:26:23,620 --> 00:26:24,620

Awesome.

445

00:26:24,620 --> 00:26:28,620

That was the perfect embodiment of what this stereotype is all about.

446

00:26:28,620 --> 00:26:33,620

Against all reason, the first guy kept driving around trying to find a road that didn't exist

447

00:26:33,620 --> 00:26:35,620

and didn't want to stop and ask for help.

448

00:26:35,620 --> 00:26:39,620

After 20 minutes of that, we put him out of his misery and called the test.

449

00:26:40,620 --> 00:26:41,620

How you doing, Andrew?

450

00:26:41,620 --> 00:26:42,620

Good.

451

00:26:42,620 --> 00:26:44,620

So, how come you didn't ask for directions?

452

00:26:44,620 --> 00:26:48,620

Well, they said all the directions to find you to get the test,

453

00:26:48,620 --> 00:26:51,620

so I was like, I've got to be able to at least get the test site.

454

00:26:51,620 --> 00:26:54,620

Look, I have to admit, I came to this story with a little bit of bias.

455

00:26:54,620 --> 00:26:56,620

I actually think it's probably true.

456

00:26:56,620 --> 00:26:58,620

Oh my God, I'm so lost.

457

00:26:58,620 --> 00:27:01,620

So I am not surprised by these initial results.

458

00:27:01,620 --> 00:27:04,620

But these are not the final results, it's just one guy and one girl.

459

00:27:04,620 --> 00:27:07,620

We're gonna build our conclusion on testing a lot more people.

460

00:27:07,620 --> 00:27:09,620

I could be wrong.

461

00:27:12,620 --> 00:27:14,620

It's Parker Geddon.

462

00:27:14,620 --> 00:27:16,620

That didn't sound good.

463

00:27:19,620 --> 00:27:21,620

What you're about to see could be dangerous.

464

00:27:21,620 --> 00:27:25,620

We're trained professionals, so please, leave myth busting to us.

465

00:27:25,620 --> 00:27:27,620

I think it's your turn to change him.

466

00:27:30,620 --> 00:27:37,620

Up next, a declaration of war that will surely end in fender benders for both genders.

467

00:27:38,620 --> 00:27:40,620

What's with the gloves?

468

00:27:40,620 --> 00:27:42,620

I hear we're doing a battle of sexist story.

469

00:27:42,620 --> 00:27:46,620

We are, however, bad news is it involves you parking cars.

470

00:27:46,620 --> 00:27:47,620

Why is that a problem?

471

00:27:47,620 --> 00:27:49,620

Because we all know how you drive.

472

00:27:49,620 --> 00:27:54,620

So the myth is that women are better at parking cars than men.

473

00:27:54,620 --> 00:27:56,620

Is that ridiculous or what?

474

00:27:58,620 --> 00:28:00,620

At least we're better at the sucker punch, huh?

475

00:28:03,620 --> 00:28:08,620

It's a controversial claim based on an extensive scientific survey.

476

00:28:08,620 --> 00:28:11,620

It states that women may take slightly longer to park,

477

00:28:11,620 --> 00:28:15,620

but their calm, methodical approach is more accurate

478

00:28:15,620 --> 00:28:18,620

and they're more adept at maneuvering into the space.

479

00:28:18,620 --> 00:28:22,620

The team can't wait to tag them, and here's how.

480

00:28:22,620 --> 00:28:25,620

For the Parallel Parking Challenge, we're bringing in 20 volunteers,

481

00:28:25,620 --> 00:28:27,620

10 men and 10 women,

482

00:28:27,620 --> 00:28:30,620

and this is how we're going to score them on their parallel park.

483

00:28:30,620 --> 00:28:33,620

Centering, centering between the front and the back vehicle.

484

00:28:33,620 --> 00:28:37,620

The curb distance, they must be at a legal curb distance.

485

00:28:37,620 --> 00:28:41,620

We're going to deduct if they smash into the car before or after them.

486

00:28:41,620 --> 00:28:44,620

They will fail if they actually take off a bumper, scrape the car,

487

00:28:44,620 --> 00:28:48,620

and how many times they need to correct to get into the space.

488

00:28:48,620 --> 00:28:53,620

Tori and I are both going to be judges so that there is no bias.

489

00:28:53,620 --> 00:28:58,620

With the rules revealed, first to kick off the park off is Frank.

490

00:28:58,620 --> 00:29:00,620

I am an incredible parallel parker.

491

00:29:00,620 --> 00:29:03,620

I can do it fast, I can do it on a dime, I live in the big city,

492

00:29:03,620 --> 00:29:05,620

I know what I'm doing when it comes to parallel parking.

493

00:29:05,620 --> 00:29:07,620

He's confident, that's for sure.

494

00:29:07,620 --> 00:29:10,620

You better be a good parker after all that talk.

495

00:29:10,620 --> 00:29:15,620

Despite the fact there's no time limit, Frank heads for the space like it's a race.

496

00:29:15,620 --> 00:29:18,620

Wow, he is in a hurry. He must have to use the restroom.

497

00:29:18,620 --> 00:29:20,620

He's definitely somebody from a city.

498

00:29:20,620 --> 00:29:25,620

He's got a good angle, but his speed at overconfidence costs him.

499

00:29:25,620 --> 00:29:26,620

Oh!

500

00:29:26,620 --> 00:29:28,620

That's a 10-point deduction.

501

00:29:28,620 --> 00:29:29,620

Okay, we got a bump.

502

00:29:29,620 --> 00:29:32,620

And an alarm.

503

00:29:32,620 --> 00:29:34,620

And that's another day.

504

00:29:34,620 --> 00:29:39,620

And with an additional forward and back correction, that's 10 more.

505

00:29:39,620 --> 00:29:41,620

I bet you he thinks that's an amazing park job.

506

00:29:43,620 --> 00:29:44,620

Perfect.

507

00:29:44,620 --> 00:29:46,620

Well, not really.

508

00:29:46,620 --> 00:29:51,620

In addition to his 30-point deductions, his centering isn't particularly centered.

509

00:29:51,620 --> 00:29:55,620

Alright, front is 9 inches.

510

00:29:55,620 --> 00:29:57,620

Perfectly square would be 20 inches.

511

00:29:57,620 --> 00:30:03,620

So a further 11-point deduction leaves Frank with a total of 59.

512

00:30:03,620 --> 00:30:06,620

So far, not a good start for the men, I'm telling you.

513

00:30:06,620 --> 00:30:10,620

Up steps the starting driver for team women, Gwen.

514

00:30:10,620 --> 00:30:12,620

Okay, Gwen, here we go.

515

00:30:12,620 --> 00:30:14,620

And she's much more cautious than Frank.

516

00:30:14,620 --> 00:30:16,620

She's doing pretty good.

517

00:30:16,620 --> 00:30:21,620

Maneuvering with careful precision, Gwen makes the most of the angle and space.

518

00:30:21,620 --> 00:30:23,620

She almost touched, but didn't touch.

519

00:30:23,620 --> 00:30:25,620

Look, she's just readjusted.

520

00:30:25,620 --> 00:30:30,620

The impressive Gwen completes the park with a single 10-point correction penalty.

521

00:30:30,620 --> 00:30:32,620

And the tail of the tape.

522

00:30:32,620 --> 00:30:33,620

20 inches.

523

00:30:33,620 --> 00:30:38,620

Tells us Gwen is perfectly centered, scoring an impressive 90 points.

524

00:30:38,620 --> 00:30:41,620

It's a tough act for Scott to follow.

525

00:30:41,620 --> 00:30:43,620

He's driving very confidently.

526

00:30:43,620 --> 00:30:45,620

And he carries on where Frank left off.

527

00:30:45,620 --> 00:30:46,620

Oh, we got a bump.

528

00:30:46,620 --> 00:30:53,620

He's also racing to get into the space and doesn't mind using the cars on either side to nudge his way in.

529

00:30:53,620 --> 00:30:55,620

Oh, jeez, that's not good.

530

00:30:55,620 --> 00:30:57,620

And with a poor positioning score.

531

00:30:57,620 --> 00:30:59,620

Eight inches, you impressed?

532

00:30:59,620 --> 00:31:07,620

He posts a total that's very similar to Frank's, meaning in this battle of the sexes, the guys already have their backs to the wall.

533

00:31:07,620 --> 00:31:14,620

The men seem to be getting in the space with less maneuvers, but they're also crashing into the cars as they do it.

534

00:31:14,620 --> 00:31:18,620

So really, who's better at parking so far?

535

00:31:18,620 --> 00:31:21,620

If I'm one of the cars parked on either side, I'm going with the women.

536

00:31:22,620 --> 00:31:26,620

Welcome back passengers.

537

00:31:26,620 --> 00:31:30,620

We are testing the myth that men are more reluctant to ask for directions than women.

538

00:31:30,620 --> 00:31:35,620

And so far, based on our sample size of one man and one woman, it's looking pretty good for the men.

539

00:31:35,620 --> 00:31:37,620

I'm so lost.

540

00:31:37,620 --> 00:31:39,620

But sample size is everything in science.

541

00:31:39,620 --> 00:31:41,620

The more you have, the better your results.

542

00:31:41,620 --> 00:31:42,620

So we're not going to leave it there.

543

00:31:42,620 --> 00:31:45,620

We're going to test a bunch more men and a bunch more women.

544

00:31:45,620 --> 00:31:53,620

Yep, with 12 more volunteers to be led astray and lost, the result is far from decided.

545

00:31:53,620 --> 00:31:57,620

So Jamie, the puppet master, reprises his string-pulling roll.

546

00:31:57,620 --> 00:31:59,620

So here are the instructions.

547

00:31:59,620 --> 00:32:04,620

And Adam continues his comically inept secret surveillance.

548

00:32:04,620 --> 00:32:06,620

Oh, no, no, no, no, no, no, no, no.

549

00:32:06,620 --> 00:32:08,620

Did he see you?

550

00:32:08,620 --> 00:32:13,620

But crucially, after a driving draft ease hit the Bermuda Triangle...

551

00:32:14,620 --> 00:32:20,620

...everyone, gals and guys alike, stop to ask for directions.

552

00:32:20,620 --> 00:32:22,620

Excuse me, do you know where Almond is?

553

00:32:22,620 --> 00:32:23,620

Excuse me.

554

00:32:23,620 --> 00:32:24,620

Do you know where Almond is?

555

00:32:24,620 --> 00:32:25,620

Excuse me.

556

00:32:25,620 --> 00:32:27,620

Is there an Almond Street around here?

557

00:32:27,620 --> 00:32:29,620

And there she goes.

558

00:32:29,620 --> 00:32:38,620

If our last female volunteer, Tammy, stops and seeks help, the girls will have a clean record the

guys won't.

559

00:32:38,620 --> 00:32:40,620

I don't know where I'm going.

560

00:32:40,620 --> 00:32:45,620

But as the clock ticks on and Tammy circles back again...

561

00:32:45,620 --> 00:32:46,620

Oh, yeah.

562

00:32:46,620 --> 00:32:48,620

...and again...

563

00:32:48,620 --> 00:32:50,620

Ah, f***!

564

00:32:50,620 --> 00:32:51,620

Okay.

565

00:32:51,620 --> 00:32:53,620

It's clear that her frustration...

566

00:32:53,620 --> 00:32:55,620

Oh, my God.

567

00:32:55,620 --> 00:33:01,620

...is not going to turn into a plea for help, but a plea for candy.

568

00:33:01,620 --> 00:33:02,620

Much.

569

00:33:02,620 --> 00:33:09,620

And at the 20-minute mark, the team terminates Tammy's trauma, and the score is all tied.

570

00:33:10,620 --> 00:33:12,620

But Jamie has a solution.

571

00:33:12,620 --> 00:33:16,620

With one failure apiece, we need a tiebreaker, and time might just do it.

572

00:33:16,620 --> 00:33:24,620

If the men have an aversion to asking for help, that reluctance might just translate to them taking more time before they stop.

573

00:33:24,620 --> 00:33:26,620

Over to Adam for the breakdown.

574

00:33:26,620 --> 00:33:32,620

Men drove for an average of four minutes and eleven seconds before asking for directions.

575

00:33:32,620 --> 00:33:38,620

Women drove for an average of five minutes and eleven seconds before asking for directions.

576

00:33:38,620 --> 00:33:39,620

That's right.

577

00:33:39,620 --> 00:33:43,620

The men asked for directions 20% sooner than the women.

578

00:33:43,620 --> 00:33:47,620

All that leads us to call this myth...

579

00:33:47,620 --> 00:33:49,620

Thank you, my silent friend.

580

00:34:08,620 --> 00:34:10,620

But with Justine behind the wheel...

581

00:34:10,620 --> 00:34:13,620

Nope. Nope. This is all gone wrong. That's a bump.

582

00:34:13,620 --> 00:34:15,620

It all goes curb up.

583

00:34:15,620 --> 00:34:17,620

Ooh.

584

00:34:17,620 --> 00:34:19,620

Ooh, that's really close.

585

00:34:19,620 --> 00:34:21,620

She better leave a note.

586

00:34:21,620 --> 00:34:26,620

Things get so bad, Tori even tries his hand at some encouragement.

587

00:34:26,620 --> 00:34:29,620

You're doing great. You almost have it.

588

00:34:29,620 --> 00:34:30,620

Really?

589

00:34:30,620 --> 00:34:32,620

That was really nice of you.

590

00:34:32,620 --> 00:34:33,620

Yeah.

591

00:34:33,620 --> 00:34:35,620

Oh, man.

592

00:34:35,620 --> 00:34:37,620

Oh.

593

00:34:42,620 --> 00:34:45,620

Wow. That's all. I'm speechless. Wow.

594

00:34:45,620 --> 00:34:47,620

Yep. Drive up on a curve. Do it.

595

00:34:47,620 --> 00:34:49,620

Fucks...

596

00:34:55,620 --> 00:34:57,620

You almost got it.

597

00:34:57,620 --> 00:35:01,620

And by almost, I mean miles away.

598

00:35:01,620 --> 00:35:04,620

PS, we've run out of points to take away.

599

00:35:04,620 --> 00:35:09,620

Yep. Justine's long list of transgressions means she scored zero.

600

00:35:09,620 --> 00:35:10,620

I don't know how to do this.

601

00:35:10,620 --> 00:35:13,620

And she not so much finishes as gives up.

602

00:35:13,620 --> 00:35:16,620

I don't know if you can call it parallel, but it's definitely parked.

603

00:35:16,620 --> 00:35:19,620

Uh, yeah. I'm in the space, right?

604

00:35:19,620 --> 00:35:21,620

Yeah, you're in the space.

605

00:35:21,620 --> 00:35:26,620

That was a licensed revoking parking job.

606

00:35:26,620 --> 00:35:31,620

Justine parked on the curb and may have ruined two cars in the process.

607

00:35:31,620 --> 00:35:35,620

I stopped marking down her score when we got to zero.

608

00:35:35,620 --> 00:35:39,620

The women's average took a hit and six tests later...

609

00:35:39,620 --> 00:35:41,620

17 inches.

610

00:35:41,620 --> 00:35:43,620

The status quo is in much the same state.

611

00:35:43,620 --> 00:35:45,620

The guys aren't doing a whole lot right.

612

00:35:45,620 --> 00:35:47,620

Oh, that's a bad bump.

613

00:35:47,620 --> 00:35:49,620

But they're not doing much wrong either.

614

00:35:49,620 --> 00:35:50,620

Nice work.

615

00:35:50,620 --> 00:35:55,620

And the girls, well, they veer and steer wildly between brilliance...

616

00:35:55,620 --> 00:35:57,620

That was awesome.

617

00:35:57,620 --> 00:35:59,620

...and catastrophe.

618

00:35:59,620 --> 00:36:00,620

Ah!

619

00:36:00,620 --> 00:36:02,620

Another bump.

620

00:36:02,620 --> 00:36:04,620

That didn't sound good.

621

00:36:04,620 --> 00:36:06,620

We're about halfway through the test.

622

00:36:06,620 --> 00:36:08,620

And I gotta say, this is really interesting.

623

00:36:08,620 --> 00:36:13,620

We have some really great scores from women and some really bad scores from women.

624

00:36:13,620 --> 00:36:15,620

Oh, God! Really?

625

00:36:15,620 --> 00:36:18,620

Can this woman see?

626

00:36:18,620 --> 00:36:20,620

Do you have a license?

627

00:36:20,620 --> 00:36:24,620

I do. I'm terrible at parallel parking.

628

00:36:25,620 --> 00:36:29,620

Whereas the men are kind of consistently staying at the middle.

629

00:36:29,620 --> 00:36:32,620

So when it averages out, we're at a tie.

630

00:36:33,620 --> 00:36:37,620

After ten park jobs, the average is incredibly close.

631

00:36:37,620 --> 00:36:40,620

But there's a clear gender-based difference in method.

632

00:36:40,620 --> 00:36:42,620

Oh!

633

00:36:42,620 --> 00:36:45,620

The men are generally faster.

634

00:36:45,620 --> 00:36:47,620

Don't mind the odd bump?

635

00:36:47,620 --> 00:36:49,620

Ooh, that was a good bump.

636

00:36:49,620 --> 00:36:53,620

And as a group, they seem to have more confidence.

637

00:36:53,620 --> 00:36:55,620

Perfect.

638

00:36:55,620 --> 00:36:58,620

While the women are more cautious and methodical.

639

00:36:58,620 --> 00:36:59,620

Woo-hoo!

640

00:36:59,620 --> 00:37:01,620

The difference between their highs and lows...

641

00:37:01,620 --> 00:37:03,620

Ooh, this is a really bad angle.

642

00:37:03,620 --> 00:37:06,620

...being a lack of confidence.

643

00:37:06,620 --> 00:37:10,620

I'm used to nudging my way in, but when the alarm went off, I thought it was a little...

644

00:37:10,620 --> 00:37:13,620

Paranoid, you know, someone come out screaming with a rake or something.

645

00:37:13,620 --> 00:37:18,620

The rest of the afternoon speeds by in a blur of curb-crawling car alarms.

646

00:37:18,620 --> 00:37:21,620

Sorry, I hit your car.

647

00:37:21,620 --> 00:37:23,620

And high-fiving.

648

00:37:23,620 --> 00:37:24,620

Team men.

649

00:37:24,620 --> 00:37:27,620

Leading to a final revealing tally.

650

00:37:27,620 --> 00:37:28,620

All right, so what are the results?

651

00:37:28,620 --> 00:37:34,620

All right, so the women came out with an average of 42.5, and the men came out with an average of...

652

00:37:34,620 --> 00:37:36,620

43.6, a statistical tie.

653

00:37:36,620 --> 00:37:42,620

Yep, with just 1.1% difference, statistically speaking, there's nothing in it.

654

00:37:42,620 --> 00:37:43,620

And that means...

655

00:37:43,620 --> 00:37:46,620

Women being better parkers than men busted.

656

00:37:46,620 --> 00:37:47,620

All right, let's go.

657

00:37:47,620 --> 00:37:49,620

Oh, should we let granted out of the trunk?

658

00:37:49,620 --> 00:37:50,620

Yeah.

659

00:37:50,620 --> 00:37:51,620

It's a really good idea.

660

00:37:51,620 --> 00:37:53,620

Hey, wake up.

661

00:37:53,620 --> 00:37:55,620

We'll let you out when we get back to San Francisco.

662

00:38:07,620 --> 00:38:13,620

You may or may not know that from 1998 to 2003, I actually worked in a model shop here at Industrial Light & Magic,

663

00:38:13,620 --> 00:38:16,620

and it's kind of like a coming home for me to be here today.

664

00:38:16,620 --> 00:38:19,620

Yeah, but you never saw a giant baby do this before.

665

00:38:19,620 --> 00:38:21,620

Oh, look, I'm running.

666

00:38:21,620 --> 00:38:26,620

I run into a lot of old friends, seen a lot of stuff that I've built, and here's one of them.

667

00:38:26,620 --> 00:38:30,620

This is a carousel that I actually designed and built with a crew for the film AI.

668

00:38:30,620 --> 00:38:35,620

You might not recognize it because it is a scene that got deleted from the final film,

669

00:38:35,620 --> 00:38:40,620

but I got about two or three weeks to design and construct this entire thing

670

00:38:40,620 --> 00:38:44,620

and then prep it for being weathered by our fantastic group of scenic painters.

671

00:38:44,620 --> 00:38:49,620

It's one of my favorite models I got to work on, and I just ran into it here in the hallway.

672

00:39:14,620 --> 00:39:17,620

This is a scene that I've been working on for a while.

673

00:39:17,620 --> 00:39:20,620

I've been working on it for a while, and I've been working on it for a while.

674

00:39:20,620 --> 00:39:23,620

I've been working on it for a while, and I've been working on it for a while.

675

00:39:23,620 --> 00:39:26,620

I've been working on it for a while, and I've been working on it for a while.

676

00:39:26,620 --> 00:39:29,620

I've been working on it for a while, and I've been working on it for a while.

677

00:39:29,620 --> 00:39:32,620

I've been working on it for a while, and I've been working on it for a while.

678

00:39:32,620 --> 00:39:35,620

I've been working on it for a while, and I've been working on it for a while.

679

00:39:35,620 --> 00:39:38,620

I've been working on it for a while, and I've been working on it for a while.

680

00:39:38,620 --> 00:39:41,620

I've been working on it for a while, and I've been working on it for a while.

681

00:39:41,620 --> 00:39:47,620

But with the same setup and scoring system as before, it will get to the heart of this myth.

682

00:39:47,620 --> 00:39:51,620

We're gonna ask you to do the same thing, but with your left hand.

683

00:39:51,620 --> 00:39:52,620

Alright.

684

00:39:52,620 --> 00:39:58,620

And as our eight volunteers are put through their paces, it should be noted that without practice,

685

00:39:58,620 --> 00:40:04,620

it's impossible to transfer a learned athletic skill to your non-preferred hand.

686

00:40:04,620 --> 00:40:05,620

Oh, heads up!

687

00:40:05,620 --> 00:40:12,620

Meaning this test effectively cancels out any subtle cultural training that may give the boys an

advantage.

688

00:40:12,620 --> 00:40:19,620

It's like they're throwing a ball for the first time, and the numbers, when collected and collated, are conclusive.

689

00:40:19,620 --> 00:40:24,620

This is interesting. The guys completely reverse the result from the preferred hand test.

690

00:40:24,620 --> 00:40:29,620

They're more accurate than the girls by about 12%, but the girls are faster.

691

00:40:29,620 --> 00:40:33,620

It's marginal, 4%, but they are faster.

692

00:40:33,620 --> 00:40:40,620

But what about form? If you look at our motion capture data, it does seem quite clear that men throw with a better technique.

693

00:40:40,620 --> 00:40:43,620

They throw with a technique that looks much more like that of the pro pitcher.

694

00:40:43,620 --> 00:40:48,620

And when we removed all that training and had our blank slates throw with their non-dominant hand,

695

00:40:48,620 --> 00:40:52,620

males and females threw with almost identical techniques.

696

00:40:52,620 --> 00:40:59,620

This suggests strongly that it is cultural, that it is training, and then when you remove that training, you level the playing field.

697

00:41:00,620 --> 00:41:03,620

To test this, Jamie has one final fling.

698

00:41:03,620 --> 00:41:05,620

Meet Jordan Taylor.

699

00:41:06,620 --> 00:41:08,620

Jordan is a girl.

700

00:41:09,620 --> 00:41:12,620

A pitcher for the U.S. softball team.

701

00:41:13,620 --> 00:41:15,620

And Jordan can throw.

702

00:41:15,620 --> 00:41:20,620

Her 65-mile-an-hour cannons hit the target with unfailing accuracy.

703

00:41:21,620 --> 00:41:25,620

And her form matches that of Greg, the male pro pitcher.

704

00:41:26,620 --> 00:41:33,620

His larger frame does mean greater speed, but in terms of precision and technique, Jordan has it nailed.

705

00:41:34,620 --> 00:41:42,620

So, given the training, there's no reason women can't overcome cultural bias and throw as well as the guys.

706

00:41:43,620 --> 00:41:44,620

Nice.

707

00:41:44,620 --> 00:41:45,620

How are we going to call it?

708

00:41:45,620 --> 00:41:51,620

Well, we set out in this episode to see if we could find a distinctive difference between the way men throw a ball and the way women throw a ball.

709

00:41:51,620 --> 00:41:52,620

And what'd we find?

710

00:41:52,620 --> 00:41:54,620

Well, we found that there is, in fact, a distinct difference.

711

00:41:54,620 --> 00:41:58,620

Both our data supported this, and more importantly, the motion-capture data.

712

00:41:58,620 --> 00:42:07,620

We were able to clearly see that when throwing a ball, women tend to stay more vertical and throw like this, whereas men go more horizontal and rotate their bodies more aggressively.

713

00:42:08,620 --> 00:42:11,620

But, you know, we really should deal with throws like a girl as an insult.

714

00:42:11,620 --> 00:42:12,620

Indeed we should.

715

00:42:12,620 --> 00:42:14,620

And here's the big news.

716

00:42:14,620 --> 00:42:16,620

Throws like a girl is not an insult.

717

00:42:16,620 --> 00:42:19,620

We did not find in any of our testing that women throw more poorly than men.

718

00:42:19,620 --> 00:42:23,620

Maybe now we can put the bed throws like a girl as an insult.

719

00:42:23,620 --> 00:42:24,620

I surely hope so.

720

00:42:24,620 --> 00:42:25,620

You hear that?