

1

00:00:00,000 --> 00:00:17,000

MUSIC

2

00:00:26,000 --> 00:00:28,000

What are you laughing at?

3

00:00:28,000 --> 00:00:30,000

Just the front page of the internet.

4

00:00:31,000 --> 00:00:32,000

Have you seen this one?

5

00:00:32,000 --> 00:00:34,000

Uh, yeah, read it.

6

00:00:34,000 --> 00:00:35,000

How about this one?

7

00:00:37,000 --> 00:00:38,000

Read it.

8

00:00:38,000 --> 00:00:42,000

You know, it really should consider going digital, don't you think?

9

00:00:43,000 --> 00:01:07,000

MUSIC

10

00:01:07,000 --> 00:01:09,000

Jamie, do you know what reddit is?

11

00:01:09,000 --> 00:01:11,000

Other than the sound of frogmakes?

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00:01:11,000 --> 00:01:14,000

Nice. Uh, no, reddit is actually an online community

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00:01:14,000 --> 00:01:17,000

discussing pretty much everything, every single day.

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00:01:17,000 --> 00:01:19,000

They call themselves the front page of the internet

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00:01:19,000 --> 00:01:21,000

and that's not far from the truth.

16

00:01:21,000 --> 00:01:24,000

I was kidding, I know what reddit is, but what's that mean to us?

17

00:01:24,000 --> 00:01:26,000

Obviously, you know, we couldn't do this show

18

00:01:26,000 --> 00:01:28,000

without the submissions we get from fans.

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00:01:28,000 --> 00:01:31,000

And seeing an opportunity because we're very popular on reddit,

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00:01:31,000 --> 00:01:33,000

I went on the site a few months ago and solicited ideas

21

00:01:33,000 --> 00:01:37,000

that we could test on a MythBusters reddit-based episode.

22

00:01:37,000 --> 00:01:38,000

Did it work?

23

00:01:38,000 --> 00:01:39,000

Actually, gangbusters.

24

00:01:39,000 --> 00:01:41,000

We got over 7,000 responses.

25

00:01:41,000 --> 00:01:44,000

Now, once we weeded out the ones that were not family-friendly,

26

00:01:44,000 --> 00:01:47,000

not good for television, and were just plain gross and disgusting,

27

00:01:47,000 --> 00:01:49,000

you know who you are.

28

00:01:49,000 --> 00:01:52,000

We were actually able to get several that are eminently testable by us.

29

00:01:52,000 --> 00:01:53,000

Like what?

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00:01:53,000 --> 00:01:55,000

Well, later we'll be throwing buster from a helicopter.

31

00:01:55,000 --> 00:01:56,000

Go! There it goes!

32

00:01:56,000 --> 00:01:58,000

Ha ha ha ha ha ha!

33

00:01:58,000 --> 00:02:00,000

Trying to punch our way out of a paper bag.

34

00:02:00,000 --> 00:02:04,000

And fans wanted a gratuitous explosion, and I think we should oblige.

35

00:02:04,000 --> 00:02:05,000

Naturally.

36

00:02:05,000 --> 00:02:09,000

But first, redditors wanted us to test whether a fart is visible

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00:02:09,000 --> 00:02:11,000

using thermal imaging technology.

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00:02:11,000 --> 00:02:13,000

There's a viral video that purports to show this,

39

00:02:13,000 --> 00:02:15,000

and they want us to test whether it's true.

40

00:02:15,000 --> 00:02:16,000

Can we save fart?

41

00:02:16,000 --> 00:02:18,000

It's our last season. What are they gonna do? Fire us?

42

00:02:20,000 --> 00:02:21,000

From the very beginning...

43

00:02:24,000 --> 00:02:26,000

the most popular fan submissions...

44

00:02:26,000 --> 00:02:29,000

I allocate myself to six gas passings per day.

45

00:02:30,000 --> 00:02:33,000

have been myths about gas emissions.

46

00:02:33,000 --> 00:02:35,000

flattest.

47

00:02:35,000 --> 00:02:37,000

Hey, we got one!

48

00:02:37,000 --> 00:02:41,000

So stand by for another detour down under.

49

00:02:41,000 --> 00:02:45,000

Because Reddit wants to know if this is a viral video fake

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00:02:45,000 --> 00:02:48,000

or flatulent fact.

51

00:02:48,000 --> 00:02:51,000

And Adam's starting at the bottom.

52

00:02:51,000 --> 00:02:55,000

The last time on Mythbusters we attempted to catch a flattest on film,

53

00:02:55,000 --> 00:02:57,000

it was devilishly difficult.

54

00:02:57,000 --> 00:02:58,000

You got one?

55

00:02:58,000 --> 00:03:00,000

I think so.

56

00:03:00,000 --> 00:03:01,000

No.

57

00:03:01,000 --> 00:03:02,000

Nothing.

58

00:03:02,000 --> 00:03:06,000

We still hope to do this experiment with a real human.

59

00:03:06,000 --> 00:03:10,000

Flatus, which is why I'm drinking all this lovely carbonated seltzer water.

60

00:03:10,000 --> 00:03:14,000

But just in case that does not work.

61

00:03:14,000 --> 00:03:15,000

Oh, wait.

62

00:03:15,000 --> 00:03:17,000

No, I gotta pee.

63

00:03:17,000 --> 00:03:23,000

I am planning to build a machine that can also eject a flattest.

64

00:03:23,000 --> 00:03:25,000

That's what all this equipment is.

65

00:03:25,000 --> 00:03:28,000

It will soon be a machine that can fart.

66

00:03:28,000 --> 00:03:34,000

The basic gist of my flattest generator design is that it needs to be at body temperature.

67

00:03:34,000 --> 00:03:37,000

That's the temperature our home-built flattest are.

68

00:03:37,000 --> 00:03:41,000

So I'm going to generate the flattest from inside a gas chamber,

69

00:03:41,000 --> 00:03:45,000

floating in a water bath that will be kept at human body temperature.

70

00:03:45,000 --> 00:03:48,000

That might not be clear right now, but it will once I start to build it.

71

00:03:49,000 --> 00:03:51,000

Ah, f\*\*\*!

72

00:03:53,000 --> 00:03:55,000

That was a complete and total disaster.

73

00:03:55,000 --> 00:03:58,000

Adam's demo may be a while longer than expected.

74

00:03:58,000 --> 00:03:59,000

Ah!

75

00:03:59,000 --> 00:04:03,000

Meanwhile, here's a high-shot Heinemann talking tech.

76

00:04:03,000 --> 00:04:08,000

So the story here goes that you can use a thermal imaging camera to see a flattest.

77

00:04:08,000 --> 00:04:13,000

We've ended up using these quite a bit on the show to tell whether things are hot or cold.

78

00:04:13,000 --> 00:04:14,000

Like some demented elf.

79

00:04:14,000 --> 00:04:20,000

And you can see by looking at the image of my face that the bright yellow areas are the hot ones.

80

00:04:20,000 --> 00:04:23,000

The darker blue ones, like my hat, are colder.

81

00:04:23,000 --> 00:04:30,000

So given that gas coming out of my body should probably be about the same temperature as my body,

82

00:04:30,000 --> 00:04:32,000

you would think that it would show up.

83

00:04:32,000 --> 00:04:35,000

Yep, a thermal camera measures infrared light.

84

00:04:35,000 --> 00:04:36,000

Just putting my hand down.

85

00:04:36,000 --> 00:04:40,000

Calculates temperature and renders a scaled image from the data.

86

00:04:42,000 --> 00:04:45,000

Older technology does so in black and white.

87

00:04:46,000 --> 00:04:51,000

Modern, ultra-sensitive cameras like ours have a full range of color.

88

00:04:51,000 --> 00:04:54,000

But can it really pick up hot air?

89

00:04:56,000 --> 00:04:59,000

With no natural flatus forthcoming...

90

00:05:01,000 --> 00:05:02,000

Yeah.

91

00:05:02,000 --> 00:05:03,000

Oh, wrong end.

92

00:05:03,000 --> 00:05:06,000

Adam, I'm going to build a fart maker.

93

00:05:06,000 --> 00:05:08,000

I'm going to make a fancy fart maker.

94

00:05:11,000 --> 00:05:18,000

Fast-forward production on his magnificent machine to produce human-temperature flatus.

95

00:05:22,000 --> 00:05:23,000

Perfect!

96

00:05:27,000 --> 00:05:28,000

Alright.

97

00:05:28,000 --> 00:05:29,000

Okay.

98

00:05:29,000 --> 00:05:30,000

Here's how this works.

99

00:05:30,000 --> 00:05:33,000

Clearly inside, I've got an air chamber.

100

00:05:33,000 --> 00:05:34,000

That's where the farts are formed.

101

00:05:34,000 --> 00:05:39,000

Around that, I have a water bath, which I will keep to a constant human body temperature.

102

00:05:39,000 --> 00:05:47,000

I also have an ambient thermocouple inside the air chamber telling me what the temperature is inside there.

103

00:05:47,000 --> 00:05:53,000

When that gets to 98.6, I'm going to let fly, literally, let fly with this.

104

00:05:56,000 --> 00:05:57,000

Uh-huh.

105

00:05:57,000 --> 00:06:02,000

And we're going to see if that's visible under our thermal imaging camera.

106

00:06:02,000 --> 00:06:06,000

While Adam waits for his wind machine to warm to the occasion...

107

00:06:07,000 --> 00:06:08,000

Are we allowed to show this on television?

108

00:06:08,000 --> 00:06:10,000

I can't believe we are.

109

00:06:13,000 --> 00:06:15,000

It's on to your second suggestion.

110

00:06:15,000 --> 00:06:16,000

So what's next?

111

00:06:16,000 --> 00:06:19,000

Next up is a bad day for Buster.

112

00:06:19,000 --> 00:06:26,000

Basically, Redditors want to know what would happen to Buster if we threw him out of a helicopter while he's inside of one of those giant inflatable hamster balls?

113

00:06:26,000 --> 00:06:27,000

A \*\*\*\*

114

00:06:27,000 --> 00:06:31,000

Right, but that's a brand name, so we can't say \*\*\*\*, so we call it a hamster ball.

115

00:06:31,000 --> 00:06:37,000

Redditors want to know if the inflatable ball would break Buster's fall and allow him to safely leave a helicopter without a parachute.

116

00:06:37,000 --> 00:06:39,000

If it turns out to be safe, can I do it?

117

00:06:39,000 --> 00:06:41,000

Knock yourself out.

118

00:06:41,000 --> 00:06:46,000

In this final season fling, Buster's being chucked from a chopper in style.

119

00:06:46,000 --> 00:06:49,000

This is going to be big.

120

00:06:49,000 --> 00:06:53,000

All right, Reddit, you asked for it and we are going to do it.

121

00:06:53,000 --> 00:06:54,000

Shut up.

122

00:06:54,000 --> 00:07:00,000

I'm standing in a runway in Half Moon Bay, California, about 30 minutes south of Mythbusters shop.

123

00:07:00,000 --> 00:07:02,000

It's only going to hurt for a little bit.

124

00:07:02,000 --> 00:07:03,000

Just for an instant.

125

00:07:03,000 --> 00:07:08,000

And soon Buster will perform another in a long line of Darwin and Wendell.

126

00:07:08,000 --> 00:07:09,000

Type stunts.

127

00:07:09,000 --> 00:07:15,000

He's going to figure out if this is a viable method of survival when you're thrown from a helicopter.

128

00:07:15,000 --> 00:07:20,000

But first, of course, I'm going to need to take it out for a spin.

129

00:07:20,000 --> 00:07:28,000

It was one of Reddits most popular suggestions and opinion is divided on the potential result.

130

00:07:28,000 --> 00:07:33,000

The math says that the ball's largest surface area will slow Buster's fall.

131

00:07:34,000 --> 00:07:40,000

The math says that the ball's largest surface area will slow Buster's terminal velocity by more than half.

132

00:07:40,000 --> 00:07:44,000

And it will also cushion his impact like an airbag.

133

00:07:44,000 --> 00:07:47,000

But will it make the thousand foot fall survivable?

134

00:07:47,000 --> 00:07:54,000

To find out, Buster's ride arrives. The big dog.

135

00:07:54,000 --> 00:07:58,000

Sharp-eyed Mythbuster fans will recognize this helicopter.

136

00:07:58,000 --> 00:08:00,000

It's been on our show before.

137

00:08:00,000 --> 00:08:08,000

Over ten years ago, I actually sat in the open door and dropped Buster in an inflatable wrap.

138

00:08:08,000 --> 00:08:10,000

The Sikorsky will be doing the heavy lifting.

139

00:08:10,000 --> 00:08:16,000

But in this final season epic, he won't be flying solo.

140

00:08:16,000 --> 00:08:20,000

So that we can give you Redditors the best possible footage of what happens here.

141

00:08:20,000 --> 00:08:29,000

We've hired a specialized, separate helicopter with its own carbon fiber gyro-stabilized camera thingabobby.

142

00:08:29,000 --> 00:08:31,000

It's going to be great.

143

00:08:31,000 --> 00:08:35,000

Maybe not for Buster, who gets to be the fall guy not once, but twice.

144

00:08:35,000 --> 00:08:39,000

Once in the ball and once as a control without.

145

00:08:39,000 --> 00:08:42,000

But how will his injuries be measured?

146

00:08:42,000 --> 00:08:46,000

We've used electronics in the past to measure shock loads to things that we're testing.

147

00:08:46,000 --> 00:08:53,000

But there's an inherent problem with them in that a lot of this stuff that we do is so violent

148

00:08:53,000 --> 00:08:58,000

that we break the instrumentation in the process and we don't get our measurements.

149

00:08:59,000 --> 00:09:05,000

So we've gotten in the habit of using these things, their shock watches, and they're pretty basic and foolproof.

150

00:09:05,000 --> 00:09:11,000

I'm putting 50G shock watches on the head and I'm going to be putting 100G shock watches on the chest,

151

00:09:11,000 --> 00:09:14,000

which is what it takes to kill somebody there.

152

00:09:16,000 --> 00:09:18,000

Here's how this is going to work.

153

00:09:18,000 --> 00:09:20,000

Alright Buster, here you go.

154

00:09:20,000 --> 00:09:22,000

Three, two, one.

155

00:09:23,000 --> 00:09:27,000

Buster and I in this helicopter are going to fly to a thousand feet.

156

00:09:27,000 --> 00:09:29,000

Have a nice flight there guy.

157

00:09:29,000 --> 00:09:31,000

Thank you, or did you mean Buster?

158

00:09:31,000 --> 00:09:32,000

I'm not Buster.

159

00:09:32,000 --> 00:09:33,000

Okay, cool.

160

00:09:33,000 --> 00:09:34,000

You know I don't care so much about it.

161

00:09:34,000 --> 00:09:41,000

When we get to a thousand feet, I'm going to drop that sandbag to make sure we're aimed correctly.

162

00:09:41,000 --> 00:09:43,000

Well, here we go.

163

00:09:43,000 --> 00:09:48,000

I will then cut Buster's seat belt, kick him out of the helicopter and drop him on the target.

164

00:09:48,000 --> 00:09:53,000

That's our control to see what happens when Buster falls without anything breaking his fall.

165

00:09:57,000 --> 00:09:59,000

That is so cool.

166

00:10:15,000 --> 00:10:17,000

That is so cool.

167

00:10:21,000 --> 00:10:23,000

And we're 500 feet above the ground.

168

00:10:23,000 --> 00:10:25,000

Look at that.

169

00:10:25,000 --> 00:10:28,000

The view from up here is absolutely magnificent.

170

00:10:28,000 --> 00:10:30,000

We're at 800 feet.

171

00:10:31,000 --> 00:10:35,000

Unpredictable winds won't affect the velocity of Buster's impact,

172

00:10:35,000 --> 00:10:40,000

but too much sideways drift could be a danger for those below.

173

00:10:43,000 --> 00:10:45,000

We're at a thousand feet.

174

00:10:45,000 --> 00:10:48,000

Alright, we are in proper position to make sure our aiming is good.

175

00:10:48,000 --> 00:10:50,000

I'm about to drop the sandbag.

176

00:10:50,000 --> 00:10:51,000

Here we go.

177

00:10:51,000 --> 00:10:54,000

In, three, two, one.

178

00:10:56,000 --> 00:10:58,000

There's the sandbag all the way.

179

00:10:58,000 --> 00:11:00,000

Here comes the sandbag.

180

00:11:03,000 --> 00:11:05,000

We've got a reposition here.

181

00:11:06,000 --> 00:11:08,000

Okay, Adam, I'm ready.

182

00:11:08,000 --> 00:11:10,000

Copy that. It's time to drop Buster's.

183

00:11:10,000 --> 00:11:12,000

First I'm going to cut his seat belt.

184

00:11:13,000 --> 00:11:14,000

There we go.

185

00:11:14,000 --> 00:11:17,000

Ladies and gentlemen, this is a misbuster's control.

186

00:11:17,000 --> 00:11:18,000

Control.

187

00:11:24,000 --> 00:11:26,000

There he goes.

188

00:11:26,000 --> 00:11:28,000

That was beautiful.

189

00:11:28,000 --> 00:11:30,000

Man, that looks terrifying.

190

00:11:37,000 --> 00:11:39,000

Alright, senators.

191

00:11:39,000 --> 00:11:40,000

Still to come.

192

00:11:40,000 --> 00:11:41,000

Are you ready?

193

00:11:41,000 --> 00:11:44,000

This is a great day for an experiment.

194

00:11:45,000 --> 00:11:50,000

Ladies and gentlemen, let's crumble.

195

00:11:50,000 --> 00:11:52,000

Alright, Reddit, here we go.

196

00:11:52,000 --> 00:11:54,000

We produce the human body temperature poop.

197

00:11:59,000 --> 00:12:02,000

The internet called, misbusters delivered.

198

00:12:02,000 --> 00:12:04,000

That was awesome.

199

00:12:04,000 --> 00:12:06,000

I love my job.

200

00:12:15,000 --> 00:12:17,000

They're mythbusters.

201

00:12:17,000 --> 00:12:22,000

From the very beginning, fan feedback has been integral to the mythbusters MO.

202

00:12:23,000 --> 00:12:25,000

No more car!

203

00:12:25,000 --> 00:12:30,000

In this final season, it's come full circle with a Reddit special.

204

00:12:30,000 --> 00:12:35,000

We are starting with what's called an AMA and ask me anything in which I log into Reddit.

205

00:12:35,000 --> 00:12:37,000

That's the best question ever.

206

00:12:37,000 --> 00:12:39,000

And take open questions from the entire user base.

207

00:12:40,000 --> 00:12:41,000

The result?

208

00:12:41,000 --> 00:12:46,000

Can an inflatable hamster ball save Buster from a thousand foot fall?

209

00:12:49,000 --> 00:12:51,000

I think he might have pooped himself.

210

00:12:51,000 --> 00:12:54,000

Alright, so for our control, Buster's dead.

211

00:12:54,000 --> 00:12:58,000

Most importantly, the sensors worked and if they worked in this case,

212

00:12:58,000 --> 00:13:00,000

they'll work inside the inflatable.

213

00:13:01,000 --> 00:13:06,000

Every single shock watch was tripped with a red line indicating a lethal impact.

214

00:13:06,000 --> 00:13:13,000

And no wonder, the math says Buster hit the ground at an estimated 120 miles per hour.

215

00:13:13,000 --> 00:13:16,000

So, bring on the ball.

216

00:13:16,000 --> 00:13:21,000

Getting Buster into this inflatable and getting him all hooked up and rigged on the helicopter.

217

00:13:21,000 --> 00:13:24,000

Turns out there's nothing I can't find a way to do.

218

00:13:24,000 --> 00:13:28,000

A little more involved than just chucking him in the chopper.

219

00:13:28,000 --> 00:13:30,000

It's gonna be tricky.

220

00:13:31,000 --> 00:13:36,000

That's the coolest thing I've ever seen him do.

221

00:13:36,000 --> 00:13:43,000

Now to insert Buster, who is once again covered in data collection shock watches.

222

00:13:43,000 --> 00:13:46,000

There are a couple of things to consider if you're talking about the potential

223

00:13:46,000 --> 00:13:48,000

for one of these inflatable balls to save your life.

224

00:13:48,000 --> 00:13:50,000

Come on, Buster! Hold on!

225

00:13:50,000 --> 00:13:51,000

Stop.

226

00:13:51,000 --> 00:13:53,000

The first is the cushioning. It'll help.

227

00:13:53,000 --> 00:13:59,000

The second is its terminal velocity and that's determined by its surface area and its weight.

228

00:13:59,000 --> 00:14:04,000

Yes! Come on, Buster!

229

00:14:04,000 --> 00:14:06,000

Okay, wait.

230

00:14:06,000 --> 00:14:12,000

A feather has more surface area than a ball bearing of the same weight and so it's gonna fall slower.

231

00:14:12,000 --> 00:14:17,000

I think... Oh, stop.

232

00:14:17,000 --> 00:14:18,000

Yeah, stop.

233

00:14:18,000 --> 00:14:21,000

Okay, just seemed like too much fun to not keep doing that.

234

00:14:21,000 --> 00:14:26,000

We know that Buster by himself is gonna fall at about 120-some miles per hour.

235

00:14:26,000 --> 00:14:31,000

We'd estimate that the ball, however, is gonna fall at about 50 miles per hour.

236

00:14:31,000 --> 00:14:32,000

There we go!

237

00:14:32,000 --> 00:14:33,000

Yeah, there we go!

238

00:14:35,000 --> 00:14:38,000

Whether it's enough or not to save your life, we don't know yet.

239

00:14:38,000 --> 00:14:39,000

That was awesome.

240

00:14:39,000 --> 00:14:43,000

Who knew that that was gonna be one of the hardest parts of this story to do?

241

00:14:45,000 --> 00:14:46,000

There we go.

242

00:14:46,000 --> 00:14:47,000

Right foot.

243

00:14:47,000 --> 00:14:51,000

With Buster poised, Adam takes his bird's eye seat.

244

00:14:51,000 --> 00:14:54,000

Hey! We're in.

245

00:14:55,000 --> 00:14:56,000

Alright!

246

00:14:56,000 --> 00:14:57,000

Awesome.

247

00:14:57,000 --> 00:15:00,000

The ball is rigged to be released from the cockpit.

248

00:15:00,000 --> 00:15:01,000

There we go.

249

00:15:01,000 --> 00:15:03,000

Stand by for lift off.

250

00:15:10,000 --> 00:15:11,000

Alright, this is how this is gonna work.

251

00:15:11,000 --> 00:15:16,000

Buster, inside the hamster ball, will be hanging below this helicopter on a tether.

252

00:15:16,000 --> 00:15:23,000

Now, because this beautiful machine is made for lifting and hauling, it's got a quick release on

its underside.

253

00:15:23,000 --> 00:15:24,000

Alright, here we go.

254

00:15:25,000 --> 00:15:30,000

So once we fly up to a thousand feet, we're going to pull that quick release, drop Buster,

255

00:15:30,000 --> 00:15:35,000

and I'll be able to watch his fall from right here, looking down.

256

00:15:36,000 --> 00:15:37,000

What a lovely day!

257

00:15:37,000 --> 00:15:39,000

What a lovely day!

258

00:15:40,000 --> 00:15:42,000

What a lovely day!

259

00:15:42,000 --> 00:15:43,000

What a lovely day!

260

00:15:43,000 --> 00:15:45,000

What a lovely day!

261

00:15:47,000 --> 00:15:52,000

This may seem like all fun and games, but actually we've got some serious concerns here.

262

00:15:52,000 --> 00:15:57,000

We've got a lot of wind, we've got a long rope, and a helicopter.

263

00:15:57,000 --> 00:16:03,000

You know, if something goes where it's not supposed to go, we could be in serious trouble.

264

00:16:03,000 --> 00:16:11,000

Once again, drift is a dangerous logistical factor, but experimentally, the key variable is speed on impact,

265

00:16:11,000 --> 00:16:14,000

and the drop conditions are identical to the control.

266

00:16:18,000 --> 00:16:26,000

Three, two, one. There it goes.

267

00:16:26,000 --> 00:16:27,000

And away she goes.

268

00:16:27,000 --> 00:16:28,000

Oh!

269

00:16:36,000 --> 00:16:37,000

Boom!

270

00:16:37,000 --> 00:16:39,000

Ha ha ha ha!

271

00:16:41,000 --> 00:16:47,000

Well, I tell you one thing, Buster seems like he's a lot better off than he was without that ball.

272

00:16:47,000 --> 00:16:49,000

Let's go see how he turned out.

273

00:16:49,000 --> 00:16:56,000

Here it is, Reddit. Did the reduction in terminal velocity and a giant airbag save Buster?

274

00:16:58,000 --> 00:17:01,000

Dead, dead, dead, dead, dead.

275

00:17:02,000 --> 00:17:04,000

Ugh, very dead.

276

00:17:04,000 --> 00:17:07,000

Wow, that's the last time I jumped out of an airplane to one of these things.

277

00:17:07,000 --> 00:17:12,000

Three, two, one. Releasing. And away she goes.

278

00:17:14,000 --> 00:17:24,000

Well, Buster didn't survive, and when you think about it, the thickness of the cushion here is, well, it's kind of like a nice, soft mattress.

279

00:17:26,000 --> 00:17:32,000

And if you were dropped from a thousand feet to land on your mattress, I don't think you'd survive either.

280

00:17:33,000 --> 00:17:34,000

Sorry, Buster.

281

00:17:34,000 --> 00:17:41,000

Even at 50 miles per hour, the cushion of air couldn't slow his deceleration enough to prevent a fatal impact.

282

00:17:42,000 --> 00:17:48,000

But the guys can't leave it there. They have one more sleeve and one more trick.

283

00:17:48,000 --> 00:17:51,000

I seem to remember. Not in the distant past.

284

00:17:52,000 --> 00:17:53,000

Bubble packaging.

285

00:17:54,000 --> 00:17:56,000

Did a pretty good job of breaking my ball.

286

00:17:59,000 --> 00:18:00,000

I'm okay.

287

00:18:00,000 --> 00:18:16,000

Yep, using their extensive experience with crash testing jummies and Buster, the guys have a big job ahead, filling the ball with their favorite shock resistant material.

288

00:18:18,000 --> 00:18:24,000

Meanwhile, it's back to the shop to find out if a thermal camera really can catch a rear guard action in action.

289

00:18:25,000 --> 00:18:32,000

Well, I just polished off my fourth pint of carbonated water, and nothing is happening.

290

00:18:33,000 --> 00:18:35,000

But this is why I started building the machine in the first place.

291

00:18:36,000 --> 00:18:38,000

All right, Mr. Ironman, I got the correct temperature.

292

00:18:39,000 --> 00:18:45,000

With Adam's machine and body temperature, that thing looks like a big \*\*\*\* that's farting.

293

00:18:47,000 --> 00:18:50,000

Read it. Stand by to have your curiosity cured.

294

00:18:50,000 --> 00:18:52,000

All right, read it. Here we go.

295

00:18:53,000 --> 00:18:58,000

I'm going to produce the human body temperature pood on the thermal imaging camera and see if it registers.

296

00:18:58,000 --> 00:19:01,000

Here we go. Three, two, one.

297

00:19:08,000 --> 00:19:10,000

Anything? This is meant to kill me.

298

00:19:11,000 --> 00:19:12,000

Nothing.

299

00:19:13,000 --> 00:19:14,000

Nothing.

300

00:19:14,000 --> 00:19:15,000

Nothing.

301

00:19:15,000 --> 00:19:16,000

Nothing.

302

00:19:17,000 --> 00:19:19,000

It sounds great though.

303

00:19:19,000 --> 00:19:20,000

I know.

304

00:19:20,000 --> 00:19:21,000

Just saying.

305

00:19:24,000 --> 00:19:28,000

It might be music to Jamie's ears, but even in close up.

306

00:19:28,000 --> 00:19:29,000

Here we go.

307

00:19:31,000 --> 00:19:33,000

This myth is looking busted.

308

00:19:36,000 --> 00:19:37,000

Nothing at all.

309

00:19:41,000 --> 00:19:46,000

I can see the nozzle's actually heating up quite a bit from the air going through it.

310

00:19:46,000 --> 00:19:47,000

Right.

311

00:19:47,000 --> 00:19:50,000

There's no indication of any kind of gas coming out of it.

312

00:19:50,000 --> 00:19:51,000

Okay.

313

00:19:53,000 --> 00:20:02,000

So just to recap, we built what I consider to be the most advanced artificial farting device yet devised by nature and the skill of man.

314

00:20:04,000 --> 00:20:09,000

And if we can't see a fart coming out of this thing, well, it's just not going to happen.

315

00:20:10,000 --> 00:20:12,000

Yep, and it's down to density.

316

00:20:13,000 --> 00:20:16,000

Low density gas emits almost no infrared light.

317

00:20:17,000 --> 00:20:20,000

So how exactly was the original faked?

318

00:20:21,000 --> 00:20:24,000

Adam fires up an old black and white camera for a demo.

319

00:20:25,000 --> 00:20:30,000

A tube and some freezing cold compressed air often used in electronics for making circuits cold.

320

00:20:30,000 --> 00:20:31,000

Watch what it does here.

321

00:20:31,000 --> 00:20:33,000

Thermal imaging camera. Here we come.

322

00:20:33,000 --> 00:20:35,000

Oh yeah, look at that.

323

00:20:35,000 --> 00:20:36,000

That looks exact.

324

00:20:36,000 --> 00:20:37,000

Oh, woo.

325

00:20:37,000 --> 00:20:38,000

Hey, that's cold.

326

00:20:38,000 --> 00:20:39,000

Woo.

327

00:20:39,000 --> 00:20:40,000

Don't try that at home.

328

00:20:41,000 --> 00:20:44,000

Of course, eagle-eyed viewers will have noted the flaw in the fake.

329

00:20:44,000 --> 00:20:49,000

Like Adam just showed, the gas in the viral video was colder than the surrounding atmosphere.

330

00:20:49,000 --> 00:20:50,000

That's because it was dark.

331

00:20:50,000 --> 00:20:53,000

It should be warmer than the surrounding atmosphere.

332

00:20:53,000 --> 00:20:56,000

So if you're going to cheat it, you need steam.

333

00:20:57,000 --> 00:20:58,000

Like this.

334

00:20:59,000 --> 00:21:03,000

So, sorry guys, I got to tell you, you got it all basquards.

335

00:21:14,000 --> 00:21:17,000

It's no shambo. It's Rocky vs. Paper.

336

00:21:24,000 --> 00:21:27,000

You look hot. I mean, as in warm.

337

00:21:27,000 --> 00:21:29,000

I've just finished my workout.

338

00:21:29,000 --> 00:21:32,000

Yeah. So what's next?

339

00:21:32,000 --> 00:21:36,000

Well, you know on MythBusters we've done a whole bunch of idiomatic phrases, right?

340

00:21:36,000 --> 00:21:37,000

More than you can shake a stick at.

341

00:21:37,000 --> 00:21:39,000

Nice. See what you did there.

342

00:21:39,000 --> 00:21:43,000

Well, one of the best suggestions to come through our Reddit inbox was the phrase,

343

00:21:43,000 --> 00:21:45,000

you can't punch your way out of a paper bag.

344

00:21:45,000 --> 00:21:49,000

So the myth is that it's impossible to punch your way out of a paper bag.

345

00:21:49,000 --> 00:21:52,000

No, because the phrase is always spoken in context.

346

00:21:52,000 --> 00:21:55,000

It means when you say to someone, you can't punch your way out of a paper bag,

347

00:21:55,000 --> 00:21:57,000

you mean that they're a weakling, ergo.

348

00:21:57,000 --> 00:22:01,000

The myth is that punching your way out of a paper bag should be trivially easy.

349

00:22:01,000 --> 00:22:03,000

Well, you're not going to fit into a paper bag.

350

00:22:03,000 --> 00:22:05,000

What? So you got to make me a man-sized paper bag?

351

00:22:05,000 --> 00:22:06,000

Bucks my way out of.

352

00:22:06,000 --> 00:22:08,000

You can still rip your way out, though.

353

00:22:08,000 --> 00:22:13,000

Right. You've got to make it big enough where only a punch is going to get me out of that bag.

354

00:22:13,000 --> 00:22:16,000

Oh, I'm totally feeling it. Bring it on. Come on, paper.

355

00:22:16,000 --> 00:22:19,000

Oh, yeah. You want a little?

356

00:22:19,000 --> 00:22:21,000

Where'd Jamie go? Come on.

357

00:22:21,000 --> 00:22:28,000

Jamie? He hit the shop for some science on why this idiom may not be as cut and dried as it seems.

358

00:22:28,000 --> 00:22:32,000

Well, the thing is that a punch involves two components.

359

00:22:32,000 --> 00:22:37,000

One is the fist, which is moving, and the other is the target, which is not.

360

00:22:37,000 --> 00:22:43,000

Now, if the target actually starts to move, then everything's different. That's a game changer.

361

00:22:43,000 --> 00:22:50,000

To demonstrate the difference between a stationary and a moving target, Adam sets up a load cell,

362

00:22:50,000 --> 00:22:53,000

a device that registers force in pounds.

363

00:22:53,000 --> 00:22:55,000

Three, two, one.

364

00:22:58,000 --> 00:23:02,000

Look at that. About 35 pounds forced to push through that.

365

00:23:02,000 --> 00:23:05,000

Yeah. This could have totally done it.

366

00:23:06,000 --> 00:23:10,000

Yep. Anyone can apply that amount of force, but...

367

00:23:10,000 --> 00:23:13,000

Loose piece of paper, load cell.

368

00:23:15,000 --> 00:23:17,000

Point five pounds of force.

369

00:23:17,000 --> 00:23:24,000

If the paper is able to move, Adam can't register anything close to the required 35 pounds.

370

00:23:25,000 --> 00:23:30,000

That is the key. The paper has to be able to move. Allow me to explain. Graphics, please.

371

00:23:30,000 --> 00:23:36,000

If the bag is too small, less than an arm span, it would be way easy to just hold it in place and rip it.

372

00:23:36,000 --> 00:23:44,000

But if the diameter is greater than my arm span, say, six feet, then the paper could theoretically accelerate out of the way of my punch,

373

00:23:44,000 --> 00:23:49,000

and it might not be possible for me to apply the requisite 35 pounds of force.

374

00:23:49,000 --> 00:23:53,000

Yep. For this myth, size really does matter.

375

00:23:53,000 --> 00:23:57,000

Okay. Time to build our own giant shopping bag.

376

00:23:57,000 --> 00:24:04,000

I'm going to keep it in exactly the same proportions of this bag. It's just going to be much bigger.

377

00:24:06,000 --> 00:24:09,000

There we go. That's one big-ass grocery bag.

378

00:24:12,000 --> 00:24:13,000

Yeah.

379

00:24:13,000 --> 00:24:15,000

The paper opponent is prepped.

380

00:24:18,000 --> 00:24:22,000

But not only does Adam have no idea how to throw a punch,

381

00:24:23,000 --> 00:24:28,000

after removing the muscle suit, it's clear he's seriously out of shape.

382

00:24:31,000 --> 00:24:33,000

Cue the training sequence.

383

00:24:34,000 --> 00:24:42,000

Now, if I'm going to punch my way out of a paper bag, it behooves me not to underestimate my opponent and learn about punching from a professional standpoint.

384

00:24:43,000 --> 00:24:44,000

Looks good. Let's get glipped up.

385

00:24:44,000 --> 00:24:45,000

All right. Let's see what you got.

386

00:24:45,000 --> 00:24:46,000

Cool.

387

00:24:47,000 --> 00:24:48,000

This is terrifying.

388

00:24:49,000 --> 00:24:55,000

And my guidedness will be Paul Wade. He's a former Northern Island kickboxing champion, San Francisco Golden Gloves champion,

389

00:24:55,000 --> 00:25:01,000

and he is the owner of the Third Street boxing gym right around the corner from the Mythbusters shop.

390

00:25:02,000 --> 00:25:03,000

That's it.

391

00:25:04,000 --> 00:25:08,000

Paul is going to show me a little bit about what punching is really about.

392

00:25:08,000 --> 00:25:09,000

See what you got. Come on.

393

00:25:10,000 --> 00:25:16,000

But first, he needs to get a gauge of just how green and useless I am in the ring.

394

00:25:17,000 --> 00:25:21,000

I haven't told him yet that the last fist fight I had, I was in the third grade.

395

00:25:21,000 --> 00:25:22,000

Sorry, JP.

396

00:25:23,000 --> 00:25:24,000

Time.

397

00:25:24,000 --> 00:25:26,000

What we got to do is get a little bit of a setup.

398

00:25:26,000 --> 00:25:27,000

One, two, three.

399

00:25:28,000 --> 00:25:31,000

Boxing, like any martial art, is highly technical.

400

00:25:31,000 --> 00:25:33,000

Hip rotation. Exactly.

401

00:25:35,000 --> 00:25:37,000

And delivering a powerful punch.

402

00:25:38,000 --> 00:25:43,000

This is much to do with form, as it is with speed and strength.

403

00:25:43,000 --> 00:25:46,000

Knowledge Adam didn't have until today.

404

00:25:47,000 --> 00:25:48,000

Straight arm.

405

00:25:48,000 --> 00:25:50,000

Pensioneers. Good. Turn your hip.

406

00:25:52,000 --> 00:25:54,000

Jab. Slip left. Good.

407

00:25:56,000 --> 00:25:58,000

It's been a long, hard session.

408

00:25:59,000 --> 00:26:04,000

But now Adam can at least start the experiment with the ability to throw an entry-level punch.

409

00:26:07,000 --> 00:26:08,000

A weapon coming through.

410

00:26:09,000 --> 00:26:10,000

Yes.

411

00:26:10,000 --> 00:26:11,000

Jab.

412

00:26:40,000 --> 00:26:45,000

Paper beat Adam's rock-like fists simply by floating away.

413

00:26:48,000 --> 00:26:51,000

But before the big fight, it's round three for Buster's balls.

414

00:26:52,000 --> 00:26:53,000

Boom.

415

00:26:54,000 --> 00:27:00,000

Yes, it's a second inflatable hamster ball ready for a third drop for a somewhat willing buster.

416

00:27:02,000 --> 00:27:09,000

Except this time, instead of being alone inside the ball, he is going to be protected with inflatable bubble packaging.

417

00:27:11,000 --> 00:27:17,000

We're going to stuff a bunch of this in there with Buster to see if it will protect him from a very high fall.

418

00:27:17,000 --> 00:27:19,000

I actually think it kind of might.

419

00:27:21,000 --> 00:27:27,000

Okay, so Buster has a nice little cushion of inflatable packaging and he's ready to ship.

420

00:27:28,000 --> 00:27:31,000

Our workhorse of a helicopter is about to take off again.

421

00:27:31,000 --> 00:27:34,000

This time in the passenger seat, Mr. Heineman. Fun fact.

422

00:27:34,000 --> 00:27:39,000

That helicopter has only ever had three non-pilots in the passenger seat.

423

00:27:39,000 --> 00:27:40,000

Carrie Byron.

424

00:27:43,000 --> 00:27:44,000

Adam Savage, that's me.

425

00:27:45,000 --> 00:27:46,000

And Jamie Heidemann.

426

00:27:48,000 --> 00:27:50,000

It's a myth buster party.

427

00:27:51,000 --> 00:27:52,000

The big dog is up.

428

00:27:53,000 --> 00:28:01,000

The Heidemann is riding shotgun and Buster covered in shock watches once again wishes he'd never applied for the job.

429

00:28:01,000 --> 00:28:02,000

Good.

430

00:28:04,000 --> 00:28:08,000

That's the coolest view ever.

431

00:28:10,000 --> 00:28:11,000

Look at that.

432

00:28:16,000 --> 00:28:19,000

Dude, we've got two helicopters in the air.

433

00:28:20,000 --> 00:28:24,000

Buster is wrapped in bubble packaging in the middle of an inflatable hipster ball.

434

00:28:24,000 --> 00:28:28,000

We're about to drop from a thousand feet onto a runway to find out if he survives.

435

00:28:31,000 --> 00:28:33,000

Helicopter is at height.

436

00:28:33,000 --> 00:28:35,000

Okay, we're going to count down.

437

00:28:36,000 --> 00:28:38,000

Three, two, one.

438

00:28:38,000 --> 00:28:39,000

Here it goes.

439

00:28:40,000 --> 00:28:41,000

Oh, there it goes.

440

00:28:42,000 --> 00:28:43,000

It's dropping.

441

00:28:43,000 --> 00:28:44,000

Oh, it's beautiful.

442

00:28:47,000 --> 00:28:48,000

Oh, oh, oh.

443

00:28:49,000 --> 00:28:50,000

Ha ha ha ha ha.

444

00:28:57,000 --> 00:28:58,000

Ha ha ha ha.

445

00:28:59,000 --> 00:29:01,000

Oh, that is awesome.

446

00:29:03,000 --> 00:29:04,000

Come on, Buster.

447

00:29:05,000 --> 00:29:06,000

Let's see how you did.

448

00:29:06,000 --> 00:29:09,000

Oh, oh, the news is bad.

449

00:29:11,000 --> 00:29:12,000

Now it's tripped.

450

00:29:13,000 --> 00:29:14,000

Now it's tripped.

451

00:29:16,000 --> 00:29:19,000

Tripped, tripped, tripped.

452

00:29:21,000 --> 00:29:22,000

He's dead, Jim.

453

00:29:23,000 --> 00:29:24,000

He's dead.

454

00:29:25,000 --> 00:29:26,000

All right, it's touching.

455

00:29:27,000 --> 00:29:28,000

It's touching.

456

00:29:29,000 --> 00:29:30,000

It's touching.

457

00:29:30,000 --> 00:29:31,000

He's dead.

458

00:29:32,000 --> 00:29:34,000

All right, it's judgment time.

459

00:29:34,000 --> 00:29:38,000

An inflatable hamster ball as a method for surviving falling out of the sky.

460

00:29:38,000 --> 00:29:39,000

How do we find?

461

00:29:39,000 --> 00:29:40,000

Not so much.

462

00:29:40,000 --> 00:29:41,000

It's busted.

463

00:29:41,000 --> 00:29:42,000

It's totally busted.

464

00:29:42,000 --> 00:29:43,000

Let's get out of here.

465

00:29:56,000 --> 00:29:57,000

Up next.

466

00:29:57,000 --> 00:29:58,000

That bag is newton.

467

00:29:59,000 --> 00:30:02,000

It's the thriller in a manila envelope.

468

00:30:20,000 --> 00:30:22,000

Ladies and gentlemen,

469

00:30:23,000 --> 00:30:28,000

welcome to the paperweight championship of the world.

470

00:30:29,000 --> 00:30:33,000

In the red corner, weighing in at 175 pounds,

471

00:30:34,000 --> 00:30:37,000

Adam the killer who's vanilla,

472

00:30:37,000 --> 00:30:38,000

who's seven.

473

00:30:40,000 --> 00:30:42,000

And in the blue corner, weighing in at

474

00:30:44,000 --> 00:30:45,000

two and a half pounds,

475

00:30:46,000 --> 00:30:48,000

is the training champion,

476

00:30:49,000 --> 00:30:50,000

Paper Bag.

477

00:30:53,000 --> 00:30:55,000

Ladies and gentlemen,

478

00:30:55,000 --> 00:30:57,000

let's crumple.

479

00:31:02,000 --> 00:31:03,000

For the myth to hold up,

480

00:31:03,000 --> 00:31:06,000

Adam has to easily punch his way out of the bag.

481

00:31:06,000 --> 00:31:07,000

That bag is newton.

482

00:31:07,000 --> 00:31:08,000

It's nothing.

483

00:31:08,000 --> 00:31:09,000

Get out there and rip that off.

484

00:31:09,000 --> 00:31:10,000

Do you hear me?

485

00:31:10,000 --> 00:31:11,000

Yeah!

486

00:31:11,000 --> 00:31:14,000

To measure such a subjective parameter,

487

00:31:14,000 --> 00:31:15,000

Adam will be timed

488

00:31:15,000 --> 00:31:18,000

and repeat the experiment over three rounds.

489

00:31:19,000 --> 00:31:20,000

Go get him, killer.

490

00:31:20,000 --> 00:31:23,000

Before assessing effort versus expectation.

491

00:31:25,000 --> 00:31:26,000

All right.

492

00:31:30,000 --> 00:31:31,000

All right, Jamie, I'm ready.

493

00:31:32,000 --> 00:31:33,000

Round one.

494

00:31:34,000 --> 00:31:35,000

DING

495

00:31:48,000 --> 00:31:49,000

Ha ha ha!

496

00:31:50,000 --> 00:31:51,000

Twenty seconds in,

497

00:31:51,000 --> 00:31:53,000

despite taking a pounding,

498

00:31:53,000 --> 00:31:55,000

the bag's still standing.

499

00:31:58,000 --> 00:31:59,000

Look,

500

00:31:59,000 --> 00:32:01,000

Paul showed me how to punch it.

501

00:32:01,000 --> 00:32:03,000

And I am not holding back.

502

00:32:05,000 --> 00:32:07,000

I am giving it everything that I've got,

503

00:32:07,000 --> 00:32:10,000

and it is surprisingly difficult.

504

00:32:10,000 --> 00:32:14,000

Adam is punching with almost 600 pounds of force.

505

00:32:14,000 --> 00:32:15,000

But so far,

506

00:32:15,000 --> 00:32:17,000

each punch is not applying enough pressure

507

00:32:17,000 --> 00:32:19,000

to pierce the paper.

508

00:32:19,000 --> 00:32:21,000

It's surprisingly violent.

509

00:32:21,000 --> 00:32:22,000

Oh!

510

00:32:22,000 --> 00:32:24,000

Every time Adam hits the bag,

511

00:32:24,000 --> 00:32:27,000

it makes this thunder-like noise.

512

00:32:28,000 --> 00:32:29,000

It's a sharp crack.

513

00:32:29,000 --> 00:32:31,000

A lot of reverberation.

514

00:32:32,000 --> 00:32:33,000

It's frightening.

515

00:32:33,000 --> 00:32:34,000

Oh!

516

00:32:34,000 --> 00:32:35,000

Oh!

517

00:32:35,000 --> 00:32:37,000

Ha ha ha ha!

518

00:32:37,000 --> 00:32:38,000

Woo!

519

00:32:38,000 --> 00:32:40,000

In your face, man!

520

00:32:40,000 --> 00:32:41,000

DING

521

00:32:41,000 --> 00:32:43,000

That was harder than I thought it would be.

522

00:32:43,000 --> 00:32:44,000

Yep, the myth suggests

523

00:32:44,000 --> 00:32:46,000

that it should be a trivial task.

524

00:32:46,000 --> 00:32:48,000

But Adam found it reasonably difficult

525

00:32:48,000 --> 00:32:50,000

until just over the minute mark,

526

00:32:50,000 --> 00:32:53,000

the paper wrinkled, fatigued, and ripped.

527

00:32:53,000 --> 00:32:54,000

And the result is

528

00:32:54,000 --> 00:32:56,000

that the paper is still in place.

529

00:32:56,000 --> 00:32:59,000

The paper wrinkled, fatigued, and ripped.

530

00:33:00,000 --> 00:33:02,000

With a benchmark laid down,

531

00:33:02,000 --> 00:33:04,000

Q round two.

532

00:33:04,000 --> 00:33:06,000

Awesome.

533

00:33:14,000 --> 00:33:17,000

Once again, it's clearly not a simple matter.

534

00:33:18,000 --> 00:33:19,000

Hold on. Where is it?

535

00:33:19,000 --> 00:33:20,000

I lost my glasses.

536

00:33:20,000 --> 00:33:21,000

Hang on.

537

00:33:21,000 --> 00:33:22,000

Got it.

538

00:33:22,000 --> 00:33:23,000

And once again,

539

00:33:23,000 --> 00:33:25,000

it takes just over a minute

540

00:33:25,000 --> 00:33:27,000

before the creases and crumples accumulate

541

00:33:27,000 --> 00:33:30,000

to the point where a single punch can break through.

542

00:33:30,000 --> 00:33:32,000

Ha ha ha ha!

543

00:33:32,000 --> 00:33:34,000

Ha ha ha ha!

544

00:33:34,000 --> 00:33:35,000

Yes!

545

00:33:35,000 --> 00:33:36,000

Yeah!

546

00:33:36,000 --> 00:33:37,000

Ha ha ha!

547

00:33:37,000 --> 00:33:38,000

Ah!

548

00:33:38,000 --> 00:33:40,000

Woo!

549

00:33:40,000 --> 00:33:42,000

And when round three

550

00:33:42,000 --> 00:33:44,000

yields an almost identical result,

551

00:33:44,000 --> 00:33:47,000

Ha ha ha ha!

552

00:33:47,000 --> 00:33:49,000

The final tally is...

553

00:33:49,000 --> 00:33:52,000

Bag zero, Adam three.

554

00:33:52,000 --> 00:33:53,000

But here's the thing.

555

00:33:53,000 --> 00:33:55,000

It took me almost a minute each time

556

00:33:55,000 --> 00:33:57,000

to punch my way out with the gloves on.

557

00:33:57,000 --> 00:33:59,000

So as far as I'm concerned,

558

00:33:59,000 --> 00:34:01,000

the myth is kind of on the fence right now.

559

00:34:01,000 --> 00:34:03,000

I'm not sure exactly how to call it.

560

00:34:03,000 --> 00:34:04,000

But for due diligence,

561

00:34:04,000 --> 00:34:05,000

there's one thing we haven't tried,

562

00:34:05,000 --> 00:34:07,000

which is, what if I take these gloves off?

563

00:34:07,000 --> 00:34:09,000

That's what we're going to do next.

564

00:34:10,000 --> 00:34:11,000

The gloves are off,

565

00:34:11,000 --> 00:34:14,000

and the variable in this experiment is surface area.

566

00:34:15,000 --> 00:34:17,000

The contact area of Adam's knuckles

567

00:34:17,000 --> 00:34:20,000

is considerably smaller than the large padded glove.

568

00:34:24,000 --> 00:34:25,000

Alright, Jimmy.

569

00:34:35,000 --> 00:34:38,000

A good bare knuckle brown bag beat down.

570

00:34:39,000 --> 00:34:42,000

The same force applied over a smaller surface area

571

00:34:42,000 --> 00:34:44,000

equals a much greater pressure.

572

00:34:44,000 --> 00:34:47,000

And it's pressure that ultimately pierces the paper.

573

00:34:47,000 --> 00:34:49,000

Ladies and gentlemen,

574

00:34:49,000 --> 00:34:52,000

the new paperweight champion of the world,

575

00:34:52,000 --> 00:34:54,000

Adam Savage.

576

00:34:56,000 --> 00:34:57,000

The phrase,

577

00:34:57,000 --> 00:35:00,000

means punching your way out of a paper bag should be easy,

578

00:35:00,000 --> 00:35:01,000

and gloves are no.

579

00:35:02,000 --> 00:35:05,000

It is, in fact, reasonably easy.

580

00:35:05,000 --> 00:35:07,000

Therefore, it's myth confirmed.

581

00:35:08,000 --> 00:35:11,000

With three Reddit requests in the bag,

582

00:35:13,000 --> 00:35:16,000

it's back to base for the final fan suggestion

583

00:35:16,000 --> 00:35:18,000

of the final season.

584

00:35:19,000 --> 00:35:21,000

So what do the Redditors have next?

585

00:35:21,000 --> 00:35:22,000

Well, as you can imagine,

586

00:35:22,000 --> 00:35:24,000

there were hundreds upon hundreds of suggestions

587

00:35:24,000 --> 00:35:26,000

of things that we could blow up on this show,

588

00:35:26,000 --> 00:35:30,000

but the most popular votes were for two main categories.

589

00:35:30,000 --> 00:35:32,000

Half the people wanted us to make a glitter bomb,

590

00:35:32,000 --> 00:35:34,000

the other half wanted us to blow up a snu.

591

00:35:34,000 --> 00:35:37,000

I figure we kill two birds with one stone,

592

00:35:37,000 --> 00:35:41,000

and do both make a bomb that blows up a snu with glitter in it.

593

00:35:41,000 --> 00:35:43,000

Great. What's a snu?

594

00:35:43,000 --> 00:35:45,000

This is the snu,

595

00:35:45,000 --> 00:35:48,000

and Reddit has requested their lovable logo

596

00:35:48,000 --> 00:35:51,000

go out in a glitter bomb of glory.

597

00:35:51,000 --> 00:35:54,000

Adam and Jamie are only too happy to oblige,

598

00:35:54,000 --> 00:35:58,000

but will it be the epic big bang ending everyone wants?

599

00:35:58,000 --> 00:36:01,000

There's only one place to find out.

600

00:36:01,000 --> 00:36:03,000

Redditors, if you're fans of Mythbusters,

601

00:36:03,000 --> 00:36:06,000

you are even deeper fans of the location in which I am standing,

602

00:36:06,000 --> 00:36:08,000

cleared of brush for 20 or 30 acres,

603

00:36:08,000 --> 00:36:11,000

and nestled into the hills of Dublin, California.

604

00:36:11,000 --> 00:36:14,000

This is the Alameda County Sheriff's Department bomb.

605

00:36:14,000 --> 00:36:16,000

Without which, it's not too much to say

606

00:36:16,000 --> 00:36:19,000

Mythbusters would not be Mythbusters.

607

00:36:19,000 --> 00:36:22,000

We have been blowing up stuff on this specific range

608

00:36:22,000 --> 00:36:24,000

for more than 10 years,

609

00:36:24,000 --> 00:36:28,000

and it's the perfect place for us to detonate your beloved snu.

610

00:36:28,000 --> 00:36:30,000

All right.

611

00:36:30,000 --> 00:36:33,000

Isn't it kind of ironic that we just had this build?

612

00:36:33,000 --> 00:36:35,000

It was like born yesterday, and today we're killing it?

613

00:36:35,000 --> 00:36:37,000

That's our usual style, isn't it?

614

00:36:37,000 --> 00:36:40,000

Question is, snu coming through.

615

00:36:40,000 --> 00:36:43,000

How do you make a glitter bomb out of a 2D digital cartoon?

616

00:36:43,000 --> 00:36:46,000

Well, before you blow it up, you blow it up

617

00:36:46,000 --> 00:36:50,000

in order to fill it with glitter, paint, and high explosive.

618

00:36:50,000 --> 00:36:53,000

Wow, that's beautiful.

619

00:36:59,000 --> 00:37:01,000

In the final season countdown,

620

00:37:01,000 --> 00:37:05,000

you, the audience, have racked up some impressive numbers.

621

00:37:05,000 --> 00:37:10,000

In the U.S. alone, you've watched the show more than 2 billion times.

622

00:37:10,000 --> 00:37:15,000

It's been broadcast in 194 countries in 116 languages.

623

00:37:15,000 --> 00:37:18,000

But the most important number is 240.

624

00:37:18,000 --> 00:37:20,000

Can I touch this up, Vic?

625

00:37:20,000 --> 00:37:22,000

See full.

626

00:37:22,000 --> 00:37:24,000

The Myths suggested by you.

627

00:37:24,000 --> 00:37:26,000

Now there's your problem.

628

00:37:26,000 --> 00:37:28,000

Thanks for the support.

629

00:37:28,000 --> 00:37:31,000

We literally couldn't have done it without you.

630

00:37:41,000 --> 00:37:45,000

The Mythbusters know how to art direct an explosion.

631

00:37:48,000 --> 00:37:50,000

Ladies and gentlemen,

632

00:37:50,000 --> 00:37:53,000

so if Reddit wants to blow up an inflatable cartoon

633

00:37:53,000 --> 00:37:57,000

and finish this final season spectacular in style,

634

00:37:57,000 --> 00:37:59,000

okay, I'm in the snu.

635

00:37:59,000 --> 00:38:01,000

Then Adam and Jamie...

636

00:38:01,000 --> 00:38:03,000

Okay, guys, bring in the explosives.

637

00:38:03,000 --> 00:38:05,000

We're going to start with the explosion.

638

00:38:05,000 --> 00:38:07,000

We're going to start with the explosion.

639

00:38:07,000 --> 00:38:09,000

Then Adam and Jamie...

640

00:38:09,000 --> 00:38:11,000

Okay, guys, bring in the explosives.

641

00:38:11,000 --> 00:38:14,000

...are just the men to deliver.

642

00:38:14,000 --> 00:38:16,000

I'm ready to be born.

643

00:38:16,000 --> 00:38:18,000

Taylor made mayhem.

644

00:38:18,000 --> 00:38:21,000

Yes, born from a snu.

645

00:38:21,000 --> 00:38:25,000

With the snu held in place...

646

00:38:25,000 --> 00:38:27,000

That seems good.

647

00:38:27,000 --> 00:38:29,000

It's time to get crafty.

648

00:38:29,000 --> 00:38:31,000

Hi, everybody.

649

00:38:31,000 --> 00:38:33,000

Now, this is a perfect Mythbusters craft project.

650

00:38:33,000 --> 00:38:35,000

I hope everyone at home is following along.

651

00:38:35,000 --> 00:38:37,000

You've got your glitter, your sparkles.

652

00:38:37,000 --> 00:38:42,000

I've also got tempera paint and 300 feet of explosive 50-grain debt cord.

653

00:38:42,000 --> 00:38:46,000

Yes, follow along at home while I make this one here.

654

00:38:46,000 --> 00:38:49,000

Seriously, this is 300 feet of debt cord.

655

00:38:49,000 --> 00:38:51,000

I love my job.

656

00:38:51,000 --> 00:38:53,000

This is what's called a stable explosive.

657

00:38:53,000 --> 00:38:56,000

Nothing will make this go off except for a blast and cap,

658

00:38:56,000 --> 00:39:00,000

and only when the bomb squad caps in does it become actually dangerous,

659

00:39:00,000 --> 00:39:03,000

and by that point, will be nice and far away.

660

00:39:03,000 --> 00:39:05,000

Now for the tempera paint.

661

00:39:05,000 --> 00:39:11,000

To maximize the spectacle, Adam begins by wrapping the explosive in paint-filled bags.

662

00:39:11,000 --> 00:39:19,000

I'm laughing because the absurdity is sinking in.

663

00:39:19,000 --> 00:39:25,000

I'm using my more than decades worth of explosive ordinance experience

664

00:39:25,000 --> 00:39:29,000

to blow up a snu in the most colorful way possible.

665

00:39:29,000 --> 00:39:34,000

All right, I'm ready for the glitter when you want to start handing some of that.

666

00:39:34,000 --> 00:39:39,000

Got them. Excellent. Awesome. That's great.

667

00:39:39,000 --> 00:39:43,000

Keep it coming.

668

00:39:43,000 --> 00:39:49,000

Awesome. All right, it's time for the install.

669

00:39:49,000 --> 00:39:52,000

With the explosive positioned centrally,

670

00:39:52,000 --> 00:39:55,000

Adam hangs as many bags of paint and glitter

671

00:39:55,000 --> 00:39:59,000

as the internal structure of the snu can support.

672

00:39:59,000 --> 00:40:03,000

Ugh. Ugh.

673

00:40:03,000 --> 00:40:05,000

It's hot in here.

674

00:40:05,000 --> 00:40:07,000

Before making a quick exit.

675

00:40:07,000 --> 00:40:09,000

Let's go.

676

00:40:09,000 --> 00:40:12,000

Oops. There we go.

677

00:40:12,000 --> 00:40:14,000

Ow.

678

00:40:14,000 --> 00:40:17,000

It looks hilarious in there.

679

00:40:17,000 --> 00:40:19,000

Everything seems nice and secure, though.

680

00:40:19,000 --> 00:40:21,000

It's beautiful. Here, take a look.

681

00:40:21,000 --> 00:40:25,000

It looks like a bunch of fruit and vegetables hanging.

682

00:40:25,000 --> 00:40:27,000

It's like a party in there.

683

00:40:27,000 --> 00:40:30,000

All right, predators.

684

00:40:30,000 --> 00:40:32,000

Are you ready? We have our snu.

685

00:40:32,000 --> 00:40:33,000

He's fully inflated.

686

00:40:33,000 --> 00:40:36,000

Inside his head, two and a half pounds of high explosives

687

00:40:36,000 --> 00:40:39,000

wrapped in tempera paint with extra bags of paint

688

00:40:39,000 --> 00:40:42,000

placed all inside his head plus bonus bags of glitter.

689

00:40:42,000 --> 00:40:46,000

I don't see any reason why we should waste one more minute of your time.

690

00:40:46,000 --> 00:40:49,000

Let's get behind the blast shields and blow this sucker up.

691

00:40:52,000 --> 00:40:54,000

This is it.

692

00:40:54,000 --> 00:40:56,000

So, I'm ready. Snu's ready. I know I'm ready.

693

00:40:56,000 --> 00:41:02,000

Adam and Jamie retreat to safety for the final season's final fan suggestion.

694

00:41:02,000 --> 00:41:04,000

I'm ready.

695

00:41:04,000 --> 00:41:11,000

Straight from your keyboard to sumptuous 25,000 frames a second slow motion detail.

696

00:41:11,000 --> 00:41:14,000

Redditors, for your gratuitous enjoyment.

697

00:41:14,000 --> 00:41:18,000

We're painting by numbers and the numbers are

698

00:41:18,000 --> 00:41:21,000

three, two, one.

699

00:41:21,000 --> 00:41:24,000

Whoa!

700

00:41:28,000 --> 00:41:30,000

That was awesome.

701

00:41:32,000 --> 00:41:33,000

That was fast.

702

00:41:33,000 --> 00:41:36,000

That was fast. There was glitter. There was paint.

703

00:41:39,000 --> 00:41:41,000

The high speed shot's going to be awesome.

704

00:41:41,000 --> 00:41:42,000

Yeah.

705

00:41:43,000 --> 00:41:46,000

Brace yourselves. The high speed is coming.

706

00:41:48,000 --> 00:41:57,000

Thank you, Reddit. It's been a blast.

707

00:41:57,000 --> 00:42:20,000

You know, I think that's the first time we've ever blown up an inflatable something or other.

708

00:42:20,000 --> 00:42:22,000

I've blown up lots of them. What do you mean?

709

00:42:22,000 --> 00:42:23,000

Really?

710

00:42:23,000 --> 00:42:24,000

Yeah.

711

00:42:24,000 --> 00:42:26,000

I don't want to know.

712

00:42:27,000 --> 00:42:29,000

I don't want to know.