

1

00:00:00,000 --> 00:00:02,600

I publicly waited the longer than I thought, so thank God it didn't escalate,

2

00:00:02,600 --> 00:00:05,660

that lady just never left without me■

3

00:00:05,740 --> 00:00:09,660

legislative just not a kid

4

00:00:10,160 --> 00:00:12,520

There is also some reverse what I am didn't■.

5

00:00:13,120 --> 00:00:16,080

Sorry!

6

00:00:16,720 --> 00:00:19,020

I guess to get Milli talked about

7

00:00:19,020 --> 00:00:22,060

aged I not pay the fucking debt

8

00:00:22,920 --> 00:00:23,680

dann stuck cut

9

00:00:23,680 --> 00:00:30,680

This guy would be a better way to get through this line.

10

00:00:30,680 --> 00:00:39,680

Look at what we have here.

11

00:00:39,680 --> 00:00:41,680

Zombies in a grocery store?

12

00:00:41,680 --> 00:00:43,680

Lining up in everything.

13

00:00:43,680 --> 00:00:45,680

That gives me an idea.

14

00:01:15,680 --> 00:01:17,680

Okay, Jamie, it's time for a pop quiz.

15

00:01:17,680 --> 00:01:19,680

In all the years we've been making Mythbusters,

16

00:01:19,680 --> 00:01:21,680

how many explosions have we caused?

17

00:01:21,680 --> 00:01:25,680

I don't know.

18

00:01:25,680 --> 00:01:26,680

Wow.

19

00:01:26,680 --> 00:01:27,680

900.

20

00:01:27,680 --> 00:01:28,680

Okay, here's another one.

21

00:01:28,680 --> 00:01:34,680

How many cars do you think we've destroyed?

22

00:01:34,680 --> 00:01:35,680

No idea.

23

00:01:35,680 --> 00:01:36,680

Close!

24

00:01:36,680 --> 00:01:37,680

220.

25

00:01:37,680 --> 00:01:40,680

Okay, how many volunteers have we used on Mythbusters?

26

00:01:40,680 --> 00:01:41,680

I know this one.

27

00:01:41,680 --> 00:01:42,680

A lot.

28

00:01:42,680 --> 00:01:44,680

You're darn tootin' it's a lot.

29

00:01:44,680 --> 00:01:48,680

We've used over 3,500 volunteers in the years we've made this show.

30

00:01:48,680 --> 00:01:50,680

We literally couldn't do it without them.

31

00:01:50,680 --> 00:01:52,680

That's why in this final season episode,

32

00:01:52,680 --> 00:01:55,680

we are paying them homage with two more stories

33

00:01:55,680 --> 00:01:57,680

that require some volunteer help.

34

00:01:57,680 --> 00:01:58,680

Like what?

35

00:01:58,680 --> 00:02:00,680

Well, later we're going to be testing a myth that may prove

36

00:02:00,680 --> 00:02:04,680

that we've all been waiting online at the grocery store wrong.

37

00:02:04,680 --> 00:02:08,680

I felt a little numb on the pride that we just opened our first business

38

00:02:08,680 --> 00:02:10,680

and we've got all these customers.

39

00:02:10,680 --> 00:02:11,680

It's true.

40

00:02:15,680 --> 00:02:18,680

But first up is a fan favorite that has become a fan favorite

41

00:02:18,680 --> 00:02:21,680

to complain about our zombie episode,

42

00:02:21,680 --> 00:02:23,680

specifically Axe vs. Gunn.

43

00:02:24,680 --> 00:02:26,680

I thought we did that in Axe 1.

44

00:02:26,680 --> 00:02:28,680

Well, Axe did win,

45

00:02:28,680 --> 00:02:31,680

but fans had to complain about my Axe technique.

46

00:02:31,680 --> 00:02:33,680

I think they called it...

47

00:02:33,680 --> 00:02:34,680

Lame.

48

00:02:35,680 --> 00:02:37,680

Yep, in the epic zombie special,

49

00:02:37,680 --> 00:02:39,680

Adam's Axe killed twice as many zombies.

50

00:02:39,680 --> 00:02:41,680

Dead! Dead! Dead!

51

00:02:41,680 --> 00:02:43,680

As Jamie's Gunn.

52

00:02:45,680 --> 00:02:47,680

But fans cried foul.

53

00:02:49,680 --> 00:02:51,680

So in this final season,

54

00:02:51,680 --> 00:02:55,680

it's now or never for a dawn of the dead do-over.

55

00:02:56,680 --> 00:02:57,680

You remember this Axe, don't you?

56

00:02:57,680 --> 00:02:59,680

It's my zombie killing Axe.

57

00:02:59,680 --> 00:03:02,680

And while I used it to kill zombies in our zombie episode,

58

00:03:02,680 --> 00:03:05,680

fans had problems with the way I was doing it.

59

00:03:05,680 --> 00:03:08,680

I was touching them and saying they're dead.

60

00:03:09,680 --> 00:03:12,680

Fans pointed out, rightly, I might add,

61

00:03:12,680 --> 00:03:14,680

that it takes a certain amount of force

62

00:03:14,680 --> 00:03:17,680

to embed an Axe in a zombie's head.

63

00:03:17,680 --> 00:03:19,680

And that's something that we're going to try

64

00:03:19,680 --> 00:03:21,680

and replicate to make this more realistic.

65

00:03:21,680 --> 00:03:23,680

And to do just that,

66

00:03:23,680 --> 00:03:27,680

Adam's starting this volunteer special by breaking the mold.

67

00:03:27,680 --> 00:03:29,680

Oh, check it out!

68

00:03:30,680 --> 00:03:33,680

Dude, are you ready to have your forehead split with an Axe?

69

00:03:34,680 --> 00:03:36,680

It's too late. That's what you were born to do.

70

00:03:36,680 --> 00:03:38,680

Let's go.

71

00:03:38,680 --> 00:03:41,680

Adam's anatomically accurate fake head

72

00:03:41,680 --> 00:03:43,680

will help his Axe-wing be more real.

73

00:03:43,680 --> 00:03:45,680

But how?

74

00:03:45,680 --> 00:03:47,680

This is Jeremy. He's a friend of mine

75

00:03:47,680 --> 00:03:49,680

who has helped me on some projects in the past.

76

00:03:49,680 --> 00:03:52,680

Today he's brought some electronics to help us calibrate our Axe hits.

77

00:03:52,680 --> 00:03:54,680

What do we have here, sir?

78

00:03:54,680 --> 00:03:57,680

Well, we have an accelerometer here tied into a microcontroller.

79

00:03:57,680 --> 00:04:01,680

And the accelerometer reads acceleration and deceleration on three axes.

80

00:04:01,680 --> 00:04:03,680

So what I'm hoping to do, if this works,

81

00:04:03,680 --> 00:04:06,680

is attach this to the back of our real Axe head,

82

00:04:06,680 --> 00:04:09,680

and then we'll just leave our fake zombie in half

83

00:04:09,680 --> 00:04:11,680

and get a value of how much force that takes.

84

00:04:11,680 --> 00:04:13,680

Yes. And that's what we'll get with this machine?

85

00:04:13,680 --> 00:04:15,680

Yes, we will. Awesome.

86

00:04:15,680 --> 00:04:17,680

Let's do it.

87

00:04:17,680 --> 00:04:19,680

With the accelerometer taped into place,

88

00:04:19,680 --> 00:04:21,680

it's time to swing for science.

89

00:04:21,680 --> 00:04:23,680

Zombie-killing.

90

00:04:23,680 --> 00:04:25,680

This is more gruesome than I thought it would be

91

00:04:25,680 --> 00:04:27,680

when we talked about this in the abstract.

92

00:04:27,680 --> 00:04:29,680

Whoo!

93

00:04:29,680 --> 00:04:31,680

Oh!

94

00:04:31,680 --> 00:04:34,680

That was terrible. I grazed the side of his skull.

95

00:04:34,680 --> 00:04:36,680

Take one was not a zombie kill.

96

00:04:36,680 --> 00:04:39,680

Look at that. I peeled off a bit of his flesh.

97

00:04:39,680 --> 00:04:43,680

Take two has accuracy,

98

00:04:43,680 --> 00:04:46,680

but lacks the power to penetrate to the brain.

99

00:04:46,680 --> 00:04:49,680

That was not a kill. You got to hit him harder.

100

00:04:49,680 --> 00:04:51,680

But take three...

101

00:04:51,680 --> 00:04:55,680

Yeah! Dead zombies all day long.

102

00:04:55,680 --> 00:04:57,680

Psh-sh!

103

00:04:57,680 --> 00:04:59,680

...gets the kill data Adam needs.

104

00:04:59,680 --> 00:05:02,680

All right, so I successfully killed my zombie head.

105

00:05:02,680 --> 00:05:05,680

And to do so, I swung this axe on a 120-degree arc

106

00:05:05,680 --> 00:05:07,680

at 7.8 meters per second.

107

00:05:07,680 --> 00:05:09,680

Now comes the cool part.

108

00:05:09,680 --> 00:05:12,680

We're going to put the same accelerometer

109

00:05:12,680 --> 00:05:14,680

onto my original foam axe,

110

00:05:14,680 --> 00:05:17,680

along with a special control unit that Jeremy's been building.

111

00:05:17,680 --> 00:05:19,680

So where do you want that?

112

00:05:19,680 --> 00:05:21,680

Right up here, right up top.

113

00:05:21,680 --> 00:05:23,680

Now, when I swing that foam axe through 120 degrees

114

00:05:23,680 --> 00:05:26,680

at any speed that is 7.8 meters per second or higher,

115

00:05:26,680 --> 00:05:29,680

then the control unit will let me know

116

00:05:29,680 --> 00:05:31,680

I've successfully registered a kill.

117

00:05:31,680 --> 00:05:33,680

We just made this the coolest toy ever.

118

00:05:33,680 --> 00:05:36,680

But if my swing is not long enough, fast enough, or hard enough,

119

00:05:36,680 --> 00:05:38,680

it's going to tell me I've got to swing again.

120

00:05:38,680 --> 00:05:41,680

And to let Adam know his swing success,

121

00:05:41,680 --> 00:05:44,680

the unit's been rigged with two sensory systems.

122

00:05:44,680 --> 00:05:46,680

Okay, the machine's ready?

123

00:05:46,680 --> 00:05:48,680

Yeah.

124

00:05:48,680 --> 00:05:50,680

Ha-ha-ha-ha!

125

00:05:50,680 --> 00:05:52,680

Did you see that? It says kill?

126

00:05:52,680 --> 00:05:54,680

That's brilliant.

127

00:05:54,680 --> 00:05:57,680

Ooh, that's not enough.

128

00:05:57,680 --> 00:06:00,680

That's not enough. That's not enough.

129

00:06:00,680 --> 00:06:03,680

Okay, killing zombies, I can tell right now,

130

00:06:03,680 --> 00:06:05,680

is going to be tiring.

131

00:06:05,680 --> 00:06:07,680

I'm going to do some push-ups.

132

00:06:07,680 --> 00:06:09,680

Wow.

133

00:06:09,680 --> 00:06:11,680

Adam's rig is really pretty nifty.

134

00:06:11,680 --> 00:06:13,680

Like last time, it's got a foam head,

135

00:06:13,680 --> 00:06:15,680

so it's safe to actually swing near people.

136

00:06:15,680 --> 00:06:17,680

This foam just soaks up the bank.

137

00:06:17,680 --> 00:06:19,680

But now it not only weighs the same as a real axe,

138

00:06:19,680 --> 00:06:22,680

but it also takes a realistic amount of effort to swing.

139

00:06:22,680 --> 00:06:24,680

Oh, my God.

140

00:06:24,680 --> 00:06:28,680

So me and my gun may yet come out trumps.

141

00:06:28,680 --> 00:06:32,680

But before the zombie volunteers arrive,

142

00:06:32,680 --> 00:06:37,680

the guys must first start their store story.

143

00:06:37,680 --> 00:06:39,680

All right, our next volunteer story is one

144

00:06:39,680 --> 00:06:41,680

I have literally always wanted to test,

145

00:06:41,680 --> 00:06:44,680

and it involves waiting online at the grocery store.

146

00:06:44,680 --> 00:06:45,680

What's that?

147

00:06:45,680 --> 00:06:47,680

All right, well, normally you go to a grocery store,

148

00:06:47,680 --> 00:06:49,680

you get your items, and then you're confronted

149

00:06:49,680 --> 00:06:51,680

with a whole bunch of checkout lanes,

150

00:06:51,680 --> 00:06:53,680

and you try and assess which one is moving faster

151

00:06:53,680 --> 00:06:55,680

so you can get out of that grocery store efficiently.

152

00:06:55,680 --> 00:06:57,680

Yeah.

153

00:06:57,680 --> 00:06:59,680

And I'm sure there's a lot of people out there

154

00:06:59,680 --> 00:07:01,680

that that whole system is totally inefficient,

155

00:07:01,680 --> 00:07:03,680

that the best way to move people through a grocery store

156

00:07:03,680 --> 00:07:05,680

is to have one long, snaking line

157

00:07:05,680 --> 00:07:07,680

that when you get to the end of it,

158

00:07:07,680 --> 00:07:09,680

you're led to the next available cashier.

159

00:07:09,680 --> 00:07:11,680

And that's supposed to be faster.

160

00:07:11,680 --> 00:07:13,680

It is. Don't you think we should test that?

161

00:07:13,680 --> 00:07:15,680

Sure. Why not?

162

00:07:15,680 --> 00:07:18,680

Since the 1960s, the average American

163

00:07:18,680 --> 00:07:21,680

has spent 80 hours a year standing in line.

164

00:07:21,680 --> 00:07:25,680

But is it true we've been waiting wrong for so long?

165

00:07:28,680 --> 00:07:30,680

Well, in this final season,

166

00:07:30,680 --> 00:07:34,680

it's time to answer this classic conundrum once and for all.

167

00:07:34,680 --> 00:07:36,680

To test this myth, we're gonna need a market.

168

00:07:36,680 --> 00:07:39,680

Unfortunately, nobody would let us use theirs.

169

00:07:39,680 --> 00:07:41,680

Not surprising. I mean, if I had one,

170

00:07:41,680 --> 00:07:43,680

I wouldn't let us use it either.

171

00:07:47,680 --> 00:07:50,680

This is why we can't have nice things.

172

00:07:50,680 --> 00:07:52,680

So we're gonna make our own.

173

00:07:52,680 --> 00:07:54,680

That's right. In a few short hours,

174

00:07:54,680 --> 00:07:56,680

we are gonna use little elbow grease

175

00:07:56,680 --> 00:07:59,680

and a beautiful empty room into a running grocery store

176

00:07:59,680 --> 00:08:01,680

full of aisles, products, check-out stands,

177

00:08:01,680 --> 00:08:03,680

and ultimately customers.

178

00:08:03,680 --> 00:08:06,680

Welcome to MythBust Store.

179

00:08:06,680 --> 00:08:09,680

With no real stores willing to play ball...

180

00:08:09,680 --> 00:08:11,680

I'll do the aisles if you do the registers.

181

00:08:11,680 --> 00:08:13,680

Absolutely. Here you go.

182

00:08:13,680 --> 00:08:15,680

The MythBusters are gonna have to build their own.

183

00:08:15,680 --> 00:08:17,680

Oh, it doesn't look like much, but it's gonna be awesome.

184

00:08:17,680 --> 00:08:19,680

Adam's starting at the business end

185

00:08:19,680 --> 00:08:22,680

by assembling their homemade cash registers.

186

00:08:22,680 --> 00:08:24,680

Next one.

187

00:08:24,680 --> 00:08:26,680

They're fabricating five in total.

188

00:08:26,680 --> 00:08:28,680

Lovely.

189

00:08:28,680 --> 00:08:30,680

And they'll form the key part of their MythBusters mini-mart.

190

00:08:30,680 --> 00:08:32,680

Oh, yeah, cash registers. It's real.

191

00:08:32,680 --> 00:08:34,680

And that's not all.

192

00:08:34,680 --> 00:08:36,680

The coolest part.

193

00:08:36,680 --> 00:08:38,680

Lit up signs that tell the customers,

194

00:08:38,680 --> 00:08:40,680

which is the next free aisle.

195

00:08:40,680 --> 00:08:43,680

Meanwhile, Jamie's on the shelf.

196

00:08:43,680 --> 00:08:45,680

This is gonna take a while.

197

00:08:45,680 --> 00:08:47,680

With almost 800 feet of shelving

198

00:08:47,680 --> 00:08:50,680

for the guys to stack and pack,

199

00:08:50,680 --> 00:08:53,680

it's up back-breaking business.

200

00:08:53,680 --> 00:08:56,680

But it does have its advantages.

201

00:08:56,680 --> 00:08:59,680

It might seem tedious to have to build our own store,

202

00:08:59,680 --> 00:09:01,680

but it allows us to remove variables

203

00:09:01,680 --> 00:09:03,680

that we might find in a real store

204

00:09:03,680 --> 00:09:05,680

that would be beyond our control.

205

00:09:05,680 --> 00:09:07,680

Jamie's right.

206

00:09:07,680 --> 00:09:10,680

A real supermarket will already have a layout locked in

207

00:09:10,680 --> 00:09:13,680

and won't want anything to slow down sales.

208

00:09:13,680 --> 00:09:17,680

So MythBust stores is the way to go.

209

00:09:17,680 --> 00:09:20,680

But a build as big as this...

210

00:09:20,680 --> 00:09:22,680

I have always wanted to do this...

211

00:09:22,680 --> 00:09:24,680

is something the guys can only pull off

212

00:09:24,680 --> 00:09:26,680

because of their experience.

213

00:09:26,680 --> 00:09:28,680

We've thought of everything.

214

00:09:28,680 --> 00:09:30,680

We've got baskets, too.

215

00:09:30,680 --> 00:09:32,680

This is exactly the kind of episode

216

00:09:32,680 --> 00:09:35,680

we never would have attempted in the early days of MythBusters.

217

00:09:35,680 --> 00:09:37,680

We just didn't have the ambition nor the skill

218

00:09:37,680 --> 00:09:39,680

to work with large groups of volunteers

219

00:09:39,680 --> 00:09:42,680

and to build our own large-scale experimental spaces,

220

00:09:42,680 --> 00:09:45,680

but we have learned so much over the years.

221

00:09:45,680 --> 00:09:48,680

This is the pinnacle of our ability to work in a budget

222

00:09:48,680 --> 00:09:51,680

on a timeline with a whole bunch of volunteers to test something.

223

00:09:51,680 --> 00:09:54,680

It's certainly ambitious.

224

00:09:54,680 --> 00:09:57,680

Add with 5,000 products to place...

225

00:09:57,680 --> 00:09:59,680

Time to start stacking.

226

00:09:59,680 --> 00:10:02,680

It's the perfect go-big-or-go-home setup

227

00:10:02,680 --> 00:10:04,680

for this fanfare well.

228

00:10:04,680 --> 00:10:06,680

Give peace a chance.

229

00:10:06,680 --> 00:10:08,680

Well, we are 10 hours in,

230

00:10:08,680 --> 00:10:11,680

and our check-out stands are complete and ready and wired.

231

00:10:11,680 --> 00:10:14,680

Our shelves are up, but now it's time to stock,

232

00:10:14,680 --> 00:10:16,680

and there's a lot to stock.

233

00:10:16,680 --> 00:10:18,680

Eat corn!

234

00:10:18,680 --> 00:10:21,680

We are about halfway there with still a fair bit to go.

235

00:10:21,680 --> 00:10:23,680

All right, ready on aisle 3.

236

00:10:25,680 --> 00:10:27,680

Oh, we don't have any customers yet.

237

00:10:27,680 --> 00:10:30,680

Still to come in this epic volunteer special,

238

00:10:30,680 --> 00:10:34,680

it's the Gone of the Dead in Acts vs. Gun.

239

00:10:34,680 --> 00:10:36,680

Ah! Ah! Ah!

240

00:10:36,680 --> 00:10:40,680

But next, Adam and Jamie shop till they drop.

241

00:10:40,680 --> 00:10:44,680

MythBuster, where shopping is fully experimental.

242

00:10:44,680 --> 00:10:46,680

Our other tagline was,

243

00:10:46,680 --> 00:10:48,680

we're making this up as we go along.

244

00:10:54,680 --> 00:10:56,680

From testing the laws of attraction...

245

00:10:56,680 --> 00:10:58,680

Are you doing it?

246

00:10:58,680 --> 00:11:00,680

...to comparing hand hygiene...

247

00:11:00,680 --> 00:11:03,680

Our test subject group seems to have developed its own ritual.

248

00:11:03,680 --> 00:11:07,680

The MythBusters have spent 14 years sourcing volunteers

249

00:11:07,680 --> 00:11:10,680

for stories big and small.

250

00:11:10,680 --> 00:11:12,680

Oh, she doesn't want to let go.

251

00:11:15,680 --> 00:11:17,680

And in this farewell season...

252

00:11:20,680 --> 00:11:23,680

Adam and Jamie have crowdsourced two final crowds.

253

00:11:25,680 --> 00:11:27,680

Starting with the undead.

254

00:11:35,680 --> 00:11:38,680

Here we are back at the scene of our original experiment,

255

00:11:38,680 --> 00:11:40,680

our zombie battle dome, if you will.

256

00:11:40,680 --> 00:11:42,680

We've got the same exact experimental setup

257

00:11:42,680 --> 00:11:44,680

with some new colors and the same weapons.

258

00:11:44,680 --> 00:11:48,680

Jamie gets a gun, I get an axe, all we need are...

259

00:11:48,680 --> 00:11:50,680

Zombies. Oh, my God!

260

00:11:53,680 --> 00:11:57,680

With almost 200 volunteer zombies back from the dead,

261

00:11:57,680 --> 00:12:00,680

the guys have everything they need to retest the myth

262

00:12:00,680 --> 00:12:03,680

that fans complained about more than any other.

263

00:12:05,680 --> 00:12:07,680

Their biggest complaint was with my axe,

264

00:12:07,680 --> 00:12:09,680

specifically my technique.

265

00:12:09,680 --> 00:12:11,680

They said that it was too lightweight.

266

00:12:11,680 --> 00:12:14,680

They suggested, the fans did, that every time I swing the axe,

267

00:12:14,680 --> 00:12:18,680

it should be with enough force to actually kill a zombie.

268

00:12:20,680 --> 00:12:23,680

With the axe able to tell if Adam's using enough force to kill...

269

00:12:25,680 --> 00:12:27,680

Let's go. What's the plan?

270

00:12:27,680 --> 00:12:28,680

So how's this gonna work?

271

00:12:28,680 --> 00:12:31,680

Well, when I start the timer and I do this...

272

00:12:32,680 --> 00:12:35,680

That lets the zombies know that it's time to get down to business.

273

00:12:36,680 --> 00:12:39,680

And then when I see that the zombies have overtaken Adam,

274

00:12:39,680 --> 00:12:43,680

I use this again, I stop them, we do a zombie body count,

275

00:12:43,680 --> 00:12:46,680

and we see how Adam did with his new axe.

276

00:12:46,680 --> 00:12:49,680

It's time for zombies!

277

00:12:50,680 --> 00:12:55,680

In the original episode, Adam dispatched 14 zombies before getting bit.

278

00:12:56,680 --> 00:13:00,680

But how will his new, accurate axe work out?

279

00:13:01,680 --> 00:13:05,680

What a fine-looking group of ladies and gentlemen we all are.

280

00:13:05,680 --> 00:13:07,680

Are you hungry?

281

00:13:10,680 --> 00:13:12,680

Okay, here we go.

282

00:13:12,680 --> 00:13:15,680

In three, two, one...

283

00:13:17,680 --> 00:13:20,680

It's go time, and as soon as the zombies enter the circle,

284

00:13:22,680 --> 00:13:24,680

Adam's off and swinging hard.

285

00:13:29,680 --> 00:13:31,680

But not for long.

286

00:13:34,680 --> 00:13:35,680

I'm dead!

287

00:13:35,680 --> 00:13:39,680

With just eight confirmed kills, barely half that of last time,

288

00:13:39,680 --> 00:13:42,680

Adam's total has tanked.

289

00:13:43,680 --> 00:13:46,680

Adam's techniques seem to be to run around the perimeter of the circle

290

00:13:46,680 --> 00:13:50,680

as fast as he could to collect as many zombie bodies as he could.

291

00:13:50,680 --> 00:13:55,680

But he's having to put a lot of effort into getting it going,

292

00:13:55,680 --> 00:13:57,680

and it actually takes a lot more time.

293

00:13:57,680 --> 00:14:02,680

From above, it looked like an iris that was closing on Adam,

294

00:14:02,680 --> 00:14:05,680

and when it got small enough, he was done for.

295

00:14:06,680 --> 00:14:09,680

The new technique has clearly slowed Adam down.

296

00:14:10,680 --> 00:14:14,680

But the key question remains, how does the axe compare to the gun?

297

00:14:14,680 --> 00:14:16,680

It's time.

298

00:14:18,680 --> 00:14:21,680

Okay, zombies, face masks down.

299

00:14:21,680 --> 00:14:24,680

To find out Jamie's armed with a paintball pistol that,

300

00:14:24,680 --> 00:14:28,680

at the request of fans, has been set to semi-automatic.

301

00:14:29,680 --> 00:14:31,680

All right, zombies, are you ready?

302

00:14:32,680 --> 00:14:36,680

Are you ready for some sweet, sweet Heinemann flush brains?

303

00:14:38,680 --> 00:14:44,680

All right, here we go. Starting gun test in three, two, one.

304

00:14:51,680 --> 00:14:55,680

From the get-go, it's clear that Jamie's semi-auto is fast,

305

00:14:55,680 --> 00:14:59,680

but it's not fast enough to let him shoot his way out of trouble.

306

00:15:00,680 --> 00:15:01,680

I'm down.

307

00:15:03,680 --> 00:15:05,680

It's time. I don't think he got four minutes.

308

00:15:06,680 --> 00:15:10,680

In total, Jamie manages only seven kills, one less than Adam.

309

00:15:11,680 --> 00:15:13,680

One of my favorite things about this show,

310

00:15:13,680 --> 00:15:16,680

one of the most scientific things that we do is we take feedback

311

00:15:16,680 --> 00:15:19,680

after episodes have aired and we go back and re-retest things.

312

00:15:19,680 --> 00:15:21,680

I love that.

313

00:15:21,680 --> 00:15:23,680

Fans did not like my axe technique,

314

00:15:23,680 --> 00:15:26,680

so we rejiggered it, made my axe much more realistic to swing,

315

00:15:26,680 --> 00:15:31,680

and as expected, that radically reduced the number of zombies that I could kill.

316

00:15:32,680 --> 00:15:34,680

But I thought that Jamie was going to mop the floor with me

317

00:15:34,680 --> 00:15:37,680

with his use of his new semi-auto paintball pistol,

318

00:15:38,680 --> 00:15:42,680

and yet he didn't improve his score at all.

319

00:15:42,680 --> 00:15:46,680

I am totally gobsmacked that it seems right now

320

00:15:47,680 --> 00:15:50,680

like axe versus gun, it's axe.

321

00:15:53,680 --> 00:15:54,680

Oh, yeah.

322

00:15:55,680 --> 00:15:59,680

Yep, despite the slowdown, the axe is ahead by a head.

323

00:16:01,680 --> 00:16:04,680

But there's way more to come for our armchair army.

324

00:16:04,680 --> 00:16:05,680

I'm ready.

325

00:16:09,680 --> 00:16:12,680

But only after some retail therapy.

326

00:16:12,680 --> 00:16:15,680

And we are pretty much done.

327

00:16:15,680 --> 00:16:19,680

Five checkout stands each with working cash registers and indicator lights.

328

00:16:19,680 --> 00:16:24,680

Five thousand separate food items are rated on over 750 feet of shelving,

329

00:16:24,680 --> 00:16:26,680

every single one with its own label.

330

00:16:26,680 --> 00:16:30,680

\$56,000 in play, myth busters, money.

331

00:16:30,680 --> 00:16:35,680

This is without a doubt the most elaborate experimental setup we have ever implemented,

332

00:16:35,680 --> 00:16:38,680

all to find out which is the more efficient way to wait online.

333

00:16:38,680 --> 00:16:40,680

Now we are pretty much ready to go,

334

00:16:40,680 --> 00:16:42,680

we just got to make sure that everything is properly priced.

335

00:16:42,680 --> 00:16:45,680

This one doesn't have a price, that's a problem.

336

00:16:45,680 --> 00:16:51,680

The guys are testing whether the traditional picolain method is really slower than one long line,

337

00:16:51,680 --> 00:16:54,680

known in the trade as the Serpentine.

338

00:16:56,680 --> 00:16:59,680

And with their 5,000 products all priced,

339

00:17:00,680 --> 00:17:03,680

their elaborate plan is ready to be revealed.

340

00:17:04,680 --> 00:17:06,680

Here's how this experimental setup works.

341

00:17:06,680 --> 00:17:09,680

We've got 120 volunteers and they will enter the store

342

00:17:09,680 --> 00:17:13,680

where they'll receive a shopping list of exactly how many items we want them to buy.

343

00:17:13,680 --> 00:17:14,680

Then they'll go get a cart.

344

00:17:15,680 --> 00:17:17,680

Once they have their cart, they'll enter the store

345

00:17:17,680 --> 00:17:20,680

and choose from the vast selection of myth busters merchandise on display.

346

00:17:20,680 --> 00:17:22,680

Personally, I hope we get cookies.

347

00:17:23,680 --> 00:17:25,680

Once our customer gets in line for the cashier,

348

00:17:25,680 --> 00:17:27,680

that's when the data collection actually begins.

349

00:17:27,680 --> 00:17:32,680

They will pull out their timestamp card and enter the precise moment they got in line.

350

00:17:32,680 --> 00:17:35,680

Then they'll proceed right towards the cashier.

351

00:17:35,680 --> 00:17:37,680

Once our customer reaches the cashier,

352

00:17:37,680 --> 00:17:39,680

that's when they enter the second data point,

353

00:17:39,680 --> 00:17:41,680

the time they got to the checkout stand.

354

00:17:41,680 --> 00:17:44,680

Thus we will have the precise length of time

355

00:17:44,680 --> 00:17:46,680

they spend waiting in line.

356

00:17:47,680 --> 00:17:49,680

Our last stop is here, data collection,

357

00:17:49,680 --> 00:17:52,680

where we not only gather our customers' timestamps,

358

00:17:52,680 --> 00:17:54,680

but we're also interested in their experience.

359

00:17:54,680 --> 00:17:56,680

So on the back of each time card,

360

00:17:56,680 --> 00:17:59,680

they will grade their overall satisfaction with the line.

361

00:18:01,680 --> 00:18:04,680

With five experienced register operators

362

00:18:05,680 --> 00:18:08,680

and a stats table staffed by experts,

363

00:18:09,680 --> 00:18:11,680

everything set to release the volunteers

364

00:18:11,680 --> 00:18:14,680

for first a full systems check.

365

00:18:15,680 --> 00:18:16,680

All right shoppers,

366

00:18:16,680 --> 00:18:20,680

starting in three, two, one, go for the run through.

367

00:18:24,680 --> 00:18:26,680

I felt a little moment of pride

368

00:18:26,680 --> 00:18:28,680

that we just opened our first business

369

00:18:28,680 --> 00:18:30,680

and we've got all these customers.

370

00:18:32,680 --> 00:18:34,680

The guys are starting with a trial run

371

00:18:34,680 --> 00:18:37,680

to make sure their newly built store can cope,

372

00:18:37,680 --> 00:18:39,680

which at first it can.

373

00:18:39,680 --> 00:18:42,680

And the total comes to \$9.

374

00:18:43,680 --> 00:18:45,680

But ten minutes later,

375

00:18:45,680 --> 00:18:48,680

the lines have become unrealistically long.

376

00:18:48,680 --> 00:18:51,680

We're already seeing some problems with our experimental design

377

00:18:51,680 --> 00:18:56,680

because our entire customer base ended up in long lines

378

00:18:56,680 --> 00:18:59,680

and that's not realistically like what we would have in a store.

379

00:18:59,680 --> 00:19:02,680

So we're going to have to figure out some way

380

00:19:02,680 --> 00:19:04,680

of pacing things a little bit

381

00:19:04,680 --> 00:19:07,680

to get lines that are more realistically sized

382

00:19:07,680 --> 00:19:09,680

to what you would see in a supermarket.

383

00:19:09,680 --> 00:19:12,680

Yep, with just too many shoppers,

384

00:19:12,680 --> 00:19:15,680

all at once, their commercial space can't cope.

385

00:19:15,680 --> 00:19:19,680

So the guys kick out their customers and reset.

386

00:19:19,680 --> 00:19:23,680

All right shoppers, commence entering the store.

387

00:19:24,680 --> 00:19:27,680

This time with 25% fewer people.

388

00:19:27,680 --> 00:19:30,680

There's a special on Jamie's Untiled Ford.

389

00:19:31,680 --> 00:19:34,680

Which soon results in cues that are much more realistic.

390

00:19:34,680 --> 00:19:37,680

Jamie, this is working beautifully.

391

00:19:37,680 --> 00:19:40,680

Meaning that the testing can shortly begin.

392

00:19:40,680 --> 00:19:43,680

We have done countless destructive stories over the years,

393

00:19:43,680 --> 00:19:45,680

but I also love myths like this one.

394

00:19:45,680 --> 00:19:47,680

I mean, I think when we do something like this,

395

00:19:47,680 --> 00:19:49,680

we might make the world a slightly better place

396

00:19:49,680 --> 00:19:51,680

by improving people's shopping experience.

397

00:19:51,680 --> 00:19:52,680

That's cool.

398

00:19:52,680 --> 00:19:55,680

That doesn't mean there can't be any destruction like this.

399

00:19:55,680 --> 00:19:57,680

Clean up on aisle 5.

400

00:20:08,680 --> 00:20:11,680

The Mythbusters have helped drivers save dollars.

401

00:20:11,680 --> 00:20:15,680

The dimpled car, 29.65 miles to the gallon.

402

00:20:15,680 --> 00:20:18,680

And revealed ways to save lives.

403

00:20:18,680 --> 00:20:20,680

It's going down.

404

00:20:20,680 --> 00:20:21,680

Oh boy.

405

00:20:21,680 --> 00:20:26,680

In fact, they've always armed viewers with important information.

406

00:20:26,680 --> 00:20:29,680

Did you know what was lurking in your basement?

407

00:20:31,680 --> 00:20:34,680

But at an apocalyptic warehouse,

408

00:20:34,680 --> 00:20:38,680

let's hope this myth's strange stats aren't ever needed.

409

00:20:38,680 --> 00:20:40,680

So where do we stand?

410

00:20:40,680 --> 00:20:42,680

Well, so far it still looks like

411

00:20:42,680 --> 00:20:46,680

Axe is edging out gun as a method for dispatching zombies.

412

00:20:46,680 --> 00:20:50,680

However, our testing scenario where zombies are coming from all sides,

413

00:20:50,680 --> 00:20:55,680

that is genuinely like the worst possible case scenario

414

00:20:55,680 --> 00:20:57,680

under which you could encounter zombies.

415

00:20:57,680 --> 00:21:00,680

In movies, it's much more likely that they're like trying to get in

416

00:21:00,680 --> 00:21:04,680

and they get through something, like a breach or a doorway.

417

00:21:04,680 --> 00:21:07,680

So that is the scenario we're going to set up next.

418

00:21:07,680 --> 00:21:10,680

It may sound like an oxymoron,

419

00:21:10,680 --> 00:21:14,680

but the guys are trying to up the realism of their zombie methodology.

420

00:21:14,680 --> 00:21:15,680

Nice.

421

00:21:15,680 --> 00:21:19,680

To do that, they're ditching the circle surround test

422

00:21:19,680 --> 00:21:22,680

and going instead with the classic fence breach.

423

00:21:23,680 --> 00:21:24,680

Keep out.

424

00:21:27,680 --> 00:21:31,680

The question is, will the axe still be the winning weapon?

425

00:21:35,680 --> 00:21:39,680

Three, two, one.

426

00:21:43,680 --> 00:21:48,680

Like film folklore, the undead start by coming through one by one.

427

00:21:49,680 --> 00:21:50,680

This is working great.

428

00:21:50,680 --> 00:21:57,680

But what Adam doesn't know is that Jamie's about to release the zombies en masse.

429

00:21:57,680 --> 00:21:58,680

Reaching the fence.

430

00:21:59,680 --> 00:22:00,680

Oh no!

431

00:22:01,680 --> 00:22:04,680

With walkers now pouring forward.

432

00:22:05,680 --> 00:22:06,680

A living wall!

433

00:22:07,680 --> 00:22:10,680

Adam's swing frequency has to rapidly rise,

434

00:22:12,680 --> 00:22:15,680

which causes him to get fatigued fast.

435

00:22:16,680 --> 00:22:23,680

So much so that the power of his swing starts to fall below the kill threshold.

436

00:22:25,680 --> 00:22:30,680

Adam is about exhausted and he's slowly losing the battle.

437

00:22:34,680 --> 00:22:35,680

This is exhausting.

438

00:22:41,680 --> 00:22:42,680

I'm dead.

439

00:22:46,680 --> 00:22:50,680

That was the hardest thing I've done in a long time.

440

00:22:51,680 --> 00:22:53,680

Looks like that was quite the workout.

441

00:22:54,680 --> 00:22:56,680

While Adam recovers, I might have pulled a muscle.

442

00:22:57,680 --> 00:22:59,680

Jamie counts up the dead.

443

00:22:59,680 --> 00:23:01,680

21, 22, 23, 24.

444

00:23:02,680 --> 00:23:04,680

To reveal a final tally that's terrifying.

445

00:23:05,680 --> 00:23:06,680

66, 67.

446

00:23:07,680 --> 00:23:11,680

Might be another body or so buried under there, but I'll call it 67.

447

00:23:12,680 --> 00:23:13,680

67, Tommy.

448

00:23:16,680 --> 00:23:17,680

67, Tommy.

449

00:23:19,680 --> 00:23:25,680

With 67, the benchmark to beat, it's time for Jamie to come out all guns blazing.

450

00:23:28,680 --> 00:23:29,680

I'm ready.

451

00:23:30,680 --> 00:23:33,680

Arm to the teeth and then some.

452

00:23:33,680 --> 00:23:35,680

You want a piece of me?

453

00:23:35,680 --> 00:23:37,680

That the carnage commenced.

454

00:23:37,680 --> 00:23:42,680

Please remember zombies that Jamie's flesh comes from Indiana,

455

00:23:42,680 --> 00:23:44,680

which means it's especially tasty.

456

00:23:47,680 --> 00:23:48,680

All right, here we go.

457

00:23:48,680 --> 00:23:51,680

In three, two, one.

458

00:23:53,680 --> 00:23:54,680

From the get go.

459

00:23:56,680 --> 00:23:57,680

He's not even moving.

460

00:23:58,680 --> 00:24:04,680

Jamie has a clear advantage over Adam as he takes down zombies on both sides of the fence.

461

00:24:08,680 --> 00:24:10,680

But when the fence gets breached,

462

00:24:11,680 --> 00:24:14,680

Jamie must really start firing on all cylinders.

463

00:24:20,680 --> 00:24:21,680

Excellent.

464

00:24:22,680 --> 00:24:23,680

He's doing good.

465

00:24:26,680 --> 00:24:27,680

Come on, Jamie, you can do it.

466

00:24:28,680 --> 00:24:32,680

Jamie may not be tiring, but the odd gun jam is slowing him down.

467

00:24:33,680 --> 00:24:35,680

Oh, he's going to run around the whole other side of this.

468

00:24:35,680 --> 00:24:36,680

This is kind of great.

469

00:24:36,680 --> 00:24:40,680

So much so that his days in the land of the living are numbered.

470

00:24:42,680 --> 00:24:43,680

He might be dead.

471

00:24:43,680 --> 00:24:44,680

Calm down.

472

00:24:49,680 --> 00:24:53,680

Jamie's dead and buried, but did he shoot more than 67?

473

00:24:53,680 --> 00:24:54,680

Mr. Heidemann.

474

00:24:54,680 --> 00:24:55,680

Yes.

475

00:24:55,680 --> 00:24:56,680

Stand up.

476

00:24:59,680 --> 00:25:01,680

He took 57 zombies with you.

477

00:25:02,680 --> 00:25:04,680

Well, I guess Axe beats gun, huh?

478

00:25:04,680 --> 00:25:05,680

That's fascinating.

479

00:25:05,680 --> 00:25:06,680

I would not have called that.

480

00:25:06,680 --> 00:25:07,680

All right, let's clean up this mess.

481

00:25:10,680 --> 00:25:11,680

All I got to say, I was surprised.

482

00:25:11,680 --> 00:25:14,680

You would think that this would be like shooting fish in a barrel,

483

00:25:14,680 --> 00:25:18,680

but these guns are more complex than something like an axe.

484

00:25:18,680 --> 00:25:19,680

They have to be reloaded.

485

00:25:19,680 --> 00:25:24,680

They can jam, and a second or two is enough to make everything go haywire.

486

00:25:24,680 --> 00:25:30,680

So I ended up scoring less than Adam, but I was expecting exactly the opposite.

487

00:25:30,680 --> 00:25:33,680

Yep, it's a result to confound the critics.

488

00:25:33,680 --> 00:25:38,680

When the apocalypse comes, folks, Axe does beat gun, and then some.

489

00:25:38,680 --> 00:25:43,680

After beating Jamie twice, both in the round and in the breach test,

490

00:25:43,680 --> 00:25:47,680

I'm like, damn, Axe, you are the proper tool.

491

00:25:47,680 --> 00:25:52,680

Mwah, not only good for a quest through Middle Earth, but also good against zombies.

492

00:25:54,680 --> 00:26:01,680

But before disbanding their undead army, there's one more zombie request to test.

493

00:26:01,680 --> 00:26:02,680

Groovy.

494

00:26:04,680 --> 00:26:09,680

Meanwhile, back at MythBus stores...

495

00:26:09,680 --> 00:26:13,680

Our employee of the month is James Franklin Heinemann.

496

00:26:13,680 --> 00:26:15,680

He hails from Columbus, Indiana.

497

00:26:15,680 --> 00:26:21,680

The lineup trial run has been such a success that the data collection can now begin.

498

00:26:21,680 --> 00:26:24,680

All right, timer ready?

499

00:26:24,680 --> 00:26:25,680

Here we go.

500

00:26:25,680 --> 00:26:27,680

Commence shopping test.

501

00:26:27,680 --> 00:26:32,680

Individual lines in three, two, one, go.

502

00:26:33,680 --> 00:26:39,680

This first test, the standard choose your lane method will last exactly 30 minutes.

503

00:26:39,680 --> 00:26:42,680

That looks pretty much like a busy normal store.

504

00:26:42,680 --> 00:26:49,680

And to make their data as reliable as possible, the MythBusters are cranking the realism up to the max.

505

00:26:49,680 --> 00:26:55,680

Now, some of you who've been watching up to this point might be thinking that we haven't said a totally real world shopping scenario,

506

00:26:55,680 --> 00:26:59,680

because we don't have people who slow the lines down with special requests.

507

00:26:59,680 --> 00:27:01,680

Ye of little faith.

508

00:27:01,680 --> 00:27:04,680

We've actually built two bogies into our testing procedure.

509

00:27:04,680 --> 00:27:06,680

One is a price check.

510

00:27:06,680 --> 00:27:13,680

A certain number of our shoppers will require one, and they'll call us on the radio, and Jamie or I will go out and give the actual price.

511

00:27:13,680 --> 00:27:14,680

There you go.

512

00:27:14,680 --> 00:27:15,680

One happened right there.

513

00:27:15,680 --> 00:27:16,680

Oh, okay.

514

00:27:16,680 --> 00:27:17,680

That's \$3.99.

515

00:27:17,680 --> 00:27:21,680

The other one is the most dreaded of shopping scenarios.

516

00:27:21,680 --> 00:27:22,680

Bum, bum, bum.

517

00:27:22,680 --> 00:27:25,680

The person who pays with a bank check.

518

00:27:25,680 --> 00:27:31,680

This combined with the price check ought to make our scenario very, very realistic.

519

00:27:31,680 --> 00:27:35,680

There's no doubt that their super store is super real.

520

00:27:35,680 --> 00:27:40,680

And halfway through, there's already a deluge of data.

521

00:27:40,680 --> 00:27:42,680

Sorry, check on two.

522

00:27:42,680 --> 00:27:44,680

Roger that. Mr. Heidernen, price check on two.

523

00:27:44,680 --> 00:27:48,680

But because Adam's so excited about this store story...

524

00:27:48,680 --> 00:27:49,680

How much is this apples here?

525

00:27:49,680 --> 00:27:50,680

\$0.99.

526

00:27:50,680 --> 00:27:51,680

Thank you.

527

00:27:51,680 --> 00:27:56,680

He's volunteering to not just observe, but to participate too.

528

00:27:56,680 --> 00:28:00,680

Got my card, got my timestamp. Now it's time to go shopping.

529

00:28:00,680 --> 00:28:03,680

He's been randomly allocated six items.

530

00:28:03,680 --> 00:28:04,680

Grits, yep.

531

00:28:04,680 --> 00:28:07,680

Which he selects based on taste.

532

00:28:07,680 --> 00:28:10,680

Lab grade gravy. Delicious.

533

00:28:10,680 --> 00:28:12,680

And packaging.

534

00:28:12,680 --> 00:28:18,680

I only buy these because the label features the handsomest man I've ever seen.

535

00:28:18,680 --> 00:28:23,680

Then like all the other shoppers, he chooses a queue and notes down the time.

536

00:28:23,680 --> 00:28:24,680

24.36.

537

00:28:24,680 --> 00:28:28,680

24.36.

538

00:28:28,680 --> 00:28:32,680

And that's when the boring part, the waiting, begins.

539

00:28:32,680 --> 00:28:34,680

No magazines to read.

540

00:28:34,680 --> 00:28:37,680

I need to know about what's going on with the Kardashians.

541

00:28:37,680 --> 00:28:41,680

This is the only place in the world I can find that out.

542

00:28:41,680 --> 00:28:46,680

Three minutes, 18 seconds after joining the queue, Adam finally reaches the register.

543

00:28:46,680 --> 00:28:47,680

27.54.

544

00:28:47,680 --> 00:28:48,680

27.54.

545

00:28:48,680 --> 00:28:49,680

Thank you.

546

00:28:49,680 --> 00:28:50,680

Alright.

547

00:28:50,680 --> 00:28:53,680

Here, I'm buying that banana peel.

548

00:28:53,680 --> 00:28:59,680

But how will that time compare to his fellow shoppers who continue to collect their data

549

00:28:59,680 --> 00:29:04,680

with destiny until, luckily for them, time's up?

550

00:29:04,680 --> 00:29:09,680

Well, after a couple of hiccups, we have completed test number one of our line waiting test.

551

00:29:09,680 --> 00:29:11,680

Thank you very much.

552

00:29:11,680 --> 00:29:13,680

I'm very happy with how it went.

553

00:29:13,680 --> 00:29:18,680

In fact, I even participated as a customer during this one and it felt like a very authentic

554

00:29:18,680 --> 00:29:21,680

shopping experience, which is what we want.

555

00:29:21,680 --> 00:29:23,680

Next up, set up the serpentine.

556

00:29:23,680 --> 00:29:33,680

You want a piece of me?

557

00:29:33,680 --> 00:29:39,680

In the MythBusters Volunteer Special, the guys have shown that Axe does trump gun.

558

00:29:39,680 --> 00:29:43,680

I've done it a long time.

559

00:29:43,680 --> 00:29:49,680

But fans also want to know if its gasoline-powered bigger brother is even better.

560

00:29:49,680 --> 00:29:53,680

And for that, Adam's taking up pit stop at the shop.

561

00:29:53,680 --> 00:29:58,680

While we've been playing around with guns and Axes, I have to say, I feel we have neglected

562

00:29:58,680 --> 00:30:03,680

perhaps the most spectacular of zombie killing tools and no zombie apocalypse would be complete

563

00:30:03,680 --> 00:30:08,680

without it, the humble chainsaw.

564

00:30:08,680 --> 00:30:10,680

Oh, the Axe was awesome.

565

00:30:10,680 --> 00:30:12,680

I love the smell of old tools.

566

00:30:12,680 --> 00:30:18,680

Viewers want to know if the iconic chainsaw is really a zombie's ultimate enemy.

567

00:30:18,680 --> 00:30:20,680

Ha! Ha-ha! I win.

568

00:30:20,680 --> 00:30:27,680

To find out, first, Adam must calibrate his weapon so that it can reliably register a kill.

569

00:30:27,680 --> 00:30:31,680

And for that, he's switching things up.

570

00:30:31,680 --> 00:30:37,680

When I take a chainsaw, and I touch a zombie, there's a certain length of time

571

00:30:37,680 --> 00:30:40,680

I touch him for before I've cut through his skull and his cranium.

572

00:30:40,680 --> 00:30:43,680

I'm guessing three quarters of a second.

573

00:30:43,680 --> 00:30:48,680

So what I've done is I've set a switch into this chainsaw that will start a timer going that will go,

574

00:30:48,680 --> 00:30:50,680

bing, every time I've killed a zombie.

575

00:30:50,680 --> 00:30:54,680

And this is the switch. It's a little bit of a UHMW guide, a micro switch,

576

00:30:54,680 --> 00:30:58,680

and when I touch a zombie, it clicks the switch.

577

00:30:58,680 --> 00:31:00,680

Hear that?

578

00:31:00,680 --> 00:31:05,680

Adam's timer switch will ensure that he can't kill zombies unrealistically fast.

579

00:31:05,680 --> 00:31:09,680

Wounded zombie, dead zombie. That's how this is going to work.

580

00:31:09,680 --> 00:31:14,680

But so as to not really harm our volunteers, he's also swapping out the blade

581

00:31:14,680 --> 00:31:17,680

for something significantly less sharp.

582

00:31:17,680 --> 00:31:19,680

I've got to kill zombies without hurting them.

583

00:31:19,680 --> 00:31:23,680

Next comes the predictable paint job.

584

00:31:23,680 --> 00:31:30,680

Before one last addition, a blood spatter system to crank the realism to the max.

585

00:31:30,680 --> 00:31:33,680

Everyone knows zombie blood isn't red. It's a family show.

586

00:31:33,680 --> 00:31:37,680

And with that, it's finally ready for a full systems check.

587

00:31:37,680 --> 00:31:43,680

This is Test number one Zombie Killing Chainsaw.

588

00:31:49,680 --> 00:31:53,680

Let's go kill some zombies.

589

00:31:54,680 --> 00:31:59,680

But before we start that mayhem, it's back to the Myth Last Door Shopping Spectacular,

590

00:31:59,680 --> 00:32:04,180

where Adam and Jamie are tackling a classic queuing conundrum.

591

00:32:04,180 --> 00:32:05,680

Just remember, shoppers,

592

00:32:05,680 --> 00:32:09,180

there's also a special on Jamie beans in aisle four.

593

00:32:09,180 --> 00:32:11,680

They're trying to find out whether it's quicker

594

00:32:11,680 --> 00:32:15,680

to wait in individual lanes or one giant line.

595

00:32:15,680 --> 00:32:17,180

Here's a little something for your trouble.

596

00:32:17,180 --> 00:32:18,680

Thank you, sir.

597

00:32:18,680 --> 00:32:21,680

And with a 30-minute Choose Your Lane test ticked off,

598

00:32:21,680 --> 00:32:25,180

the store manager has the stats.

599

00:32:25,180 --> 00:32:27,180

Well, test one is done, the results are in,

600

00:32:27,180 --> 00:32:29,180

and I have this handy palm full of figures.

601

00:32:29,180 --> 00:32:31,680

We processed 138 shoppers.

602

00:32:31,680 --> 00:32:35,680

They averaged a wait time of 5 minutes and 39 seconds.

603

00:32:35,680 --> 00:32:37,680

The fastest was 2 minutes 16 seconds,

604

00:32:37,680 --> 00:32:40,180

the slowest 9 minutes and 21 seconds.

605

00:32:40,180 --> 00:32:41,680

That was an unhappy shopper.

606

00:32:41,680 --> 00:32:46,680

And they had an average satisfaction level of 3.48 out of 5.

607

00:32:46,680 --> 00:32:48,680

I think that's a little bit above average.

608

00:32:48,680 --> 00:32:51,680

Now, what does this mean when the serpentine line happens?

609

00:32:51,680 --> 00:32:53,680

I can't see it changing it that much.

610

00:32:53,680 --> 00:32:55,680

I could be wrong.

611

00:32:55,680 --> 00:32:58,680

To find out, the guys set up their serpentine,

612

00:32:58,680 --> 00:33:00,180

which is pretty simple.

613

00:33:00,180 --> 00:33:04,180

Basically, the serpentine line is just a single line.

614

00:33:04,180 --> 00:33:06,180

It may snake around like a serpent,

615

00:33:06,180 --> 00:33:09,180

but that's just to fit it in the store more conveniently.

616

00:33:09,180 --> 00:33:11,180

Darn right, it's a long line.

617

00:33:11,180 --> 00:33:13,180

The customer at the head of the line

618

00:33:13,180 --> 00:33:16,180

simply waits for the next available cashier,

619

00:33:16,180 --> 00:33:18,180

and he goes there.

620

00:33:18,180 --> 00:33:21,180

That's the concept, but to see if it's faster...

621

00:33:21,180 --> 00:33:23,180

Cashiers, are you ready?

622

00:33:23,180 --> 00:33:24,180

Yeah!

623

00:33:24,180 --> 00:33:25,180

I said cashiers, are you ready?

624

00:33:25,180 --> 00:33:26,180

Yeah!

625

00:33:26,180 --> 00:33:29,680

The guys open for business for their 90 volunteers.

626

00:33:29,680 --> 00:33:30,680

Go!

627

00:33:30,680 --> 00:33:33,680

But the test won't start straight away.

628

00:33:33,680 --> 00:33:35,680

You might be wondering at this point

629

00:33:35,680 --> 00:33:37,180

why we're letting our store run

630

00:33:37,180 --> 00:33:39,180

before starting to gather any data.

631

00:33:39,180 --> 00:33:40,180

And the reason is,

632

00:33:40,180 --> 00:33:42,680

it's best to think of our store like a marble run.

633

00:33:42,680 --> 00:33:44,680

Looks like I'll do as well as you.

634

00:33:44,680 --> 00:33:47,180

So if you have a marble run with tracks and wheels,

635

00:33:47,180 --> 00:33:49,180

and you dump 50 marbles in all at once,

636

00:33:49,180 --> 00:33:51,180

they're going to start in a clump,

637

00:33:51,180 --> 00:33:54,680

and then slowly disperse throughout the machine as it goes.

638

00:33:54,680 --> 00:33:56,180

That's exactly what we're doing here.

639

00:33:56,180 --> 00:33:58,680

We're bringing in our people and then letting them disperse.

640

00:33:58,680 --> 00:34:00,180

And once they're dispersed,

641

00:34:00,180 --> 00:34:03,180

that's when our data is going to be more accurate

642

00:34:03,180 --> 00:34:05,680

because it's more average across the system.

643

00:34:05,680 --> 00:34:09,180

It takes five minutes to achieve an optimum dispersal,

644

00:34:09,180 --> 00:34:11,180

and then it's all systems go.

645

00:34:11,180 --> 00:34:15,680

All right, let's start the clock in three, two, one.

646

00:34:15,680 --> 00:34:17,680

Commence continuing shopping.

647

00:34:17,680 --> 00:34:19,680

To ensure a valid comparison,

648

00:34:19,680 --> 00:34:22,680

they're using the same number of volunteers.

649

00:34:22,680 --> 00:34:24,180

Looks like number two is up before you, ma'am.

650

00:34:24,180 --> 00:34:27,180

With the same number of wildcards,

651

00:34:27,180 --> 00:34:30,180

but by studying the dynamics of the queue,

652

00:34:30,180 --> 00:34:32,680

Jamie's already spotted something serious.

653

00:34:32,680 --> 00:34:35,180

So the amount of time that it took that customer

654

00:34:35,180 --> 00:34:39,180

to get from the middle of the line to the cashier

655

00:34:39,180 --> 00:34:41,680

is time that didn't exist

656

00:34:41,680 --> 00:34:44,180

if that person was standing in line the conventional way.

657

00:34:44,180 --> 00:34:47,180

It's that travel distance that I think has to be

658

00:34:47,180 --> 00:34:49,180

making this whole thing take more time.

659

00:34:49,180 --> 00:34:50,680

According to the Heinemann,

660

00:34:50,680 --> 00:34:54,680

this extra travel to the till will slow the system,

661

00:34:54,680 --> 00:34:56,680

but Adam's not so sure.

662

00:34:56,680 --> 00:34:59,180

When we first started writing out the methodology for this test,

663

00:34:59,180 --> 00:35:00,680

I have to tell you I had some bias,

664

00:35:00,680 --> 00:35:03,180

and I thought serpentine was totally going to win.

665

00:35:03,180 --> 00:35:05,180

But now, after watching this in action,

666

00:35:05,180 --> 00:35:07,680

I'm not so sure that I'm right about that

667

00:35:07,680 --> 00:35:11,680

because it may be that this just makes it fairer for everybody,

668

00:35:11,680 --> 00:35:14,680

but not necessarily faster for everybody.

669

00:35:14,680 --> 00:35:16,180

Price check on two.

670

00:35:16,180 --> 00:35:18,680

Oh, price check on two. Excuse me.

671

00:35:18,680 --> 00:35:21,680

Still to come, Jamie shops for signs.

672

00:35:21,680 --> 00:35:24,680

It's a little known fact that Heinemann can live for months on nothing,

673

00:35:24,680 --> 00:35:26,680

but eggs and beer.

674

00:35:26,680 --> 00:35:29,680

And Adam goes in for the kill.

675

00:35:29,680 --> 00:35:31,680

Coru V.

676

00:35:31,680 --> 00:35:33,680

Here, yes, sir, yes!

677

00:35:33,680 --> 00:35:35,680

Ah!

678

00:35:49,680 --> 00:35:51,680

To hordes of human guinea pigs.

679

00:35:51,680 --> 00:35:54,680

Oh!

680

00:35:54,680 --> 00:35:57,680

The mythbusters have relied on audience participation.

681

00:35:57,680 --> 00:36:00,680

Give me a hoa! Hoa! Hoa!

682

00:36:00,680 --> 00:36:02,680

For 14 years and changed.

683

00:36:02,680 --> 00:36:04,680

Big hot door!

684

00:36:04,680 --> 00:36:08,680

So to all our 3,500 intrepid volunteers.

685

00:36:08,680 --> 00:36:10,680

Do you have a license?

686

00:36:10,680 --> 00:36:13,680

We literally couldn't have done it without you.

687

00:36:13,680 --> 00:36:17,680

Yo, I'm Jesse Pikman, and it's time to science this biatch up.

688

00:36:18,680 --> 00:36:20,680

Phil's a good guy.

689

00:36:38,580 --> 00:36:42,680

Adam and Jamie are testing a super story about the super store.

690

00:36:42,680 --> 00:36:46,680

Is it better to line up in individual lanes or in one long line?

691

00:36:46,680 --> 00:36:47,680

Halfway through the long line test,

692

00:36:47,680 --> 00:36:48,980

It's time for you to be a customer.

693

00:36:48,980 --> 00:36:49,980

Okay.

694

00:36:49,980 --> 00:36:51,480

Like Adam before him...

695

00:36:51,480 --> 00:36:52,880

Ten items.

696

00:36:52,880 --> 00:36:55,680

...Jayne's volunteered to collect data...

697

00:36:55,680 --> 00:36:57,380

Fresh produce is good for you.

698

00:36:57,380 --> 00:37:00,980

...as he sources a randomly allocated ten items.

699

00:37:00,980 --> 00:37:03,780

And some peanut butter.

700

00:37:03,780 --> 00:37:05,780

...before standing in line,

701

00:37:05,780 --> 00:37:08,680

which is too hard for Adam to resist.

702

00:37:08,680 --> 00:37:10,280

Yes, yes, yes, yes.

703

00:37:10,280 --> 00:37:11,480

You can see him.

704

00:37:11,480 --> 00:37:14,880

He's blending in with the average populace.

705

00:37:14,880 --> 00:37:16,680

Not even a little bit.

706

00:37:16,680 --> 00:37:20,880

You can spot him by his absurd mustache...

707

00:37:20,880 --> 00:37:23,680

and self-referential hat.

708

00:37:23,680 --> 00:37:27,980

Whereas Adam Attenborough Savage queued for three minutes eighteen,

709

00:37:27,980 --> 00:37:30,280

Jayne's weight is way longer.

710

00:37:30,280 --> 00:37:32,980

A whopping five minutes twenty-nine.

711

00:37:32,980 --> 00:37:34,280

There you go.

712

00:37:34,280 --> 00:37:35,380

Keep the change.

713

00:37:35,380 --> 00:37:38,980

But that's still less than the picolain average.

714

00:37:38,980 --> 00:37:41,280

So what will the rest of the data say?

715

00:37:41,280 --> 00:37:45,180

Well, six minutes and thirty-two transactions later,

716

00:37:45,180 --> 00:37:48,680

the guys have all the numbers they need.

717

00:37:48,680 --> 00:37:51,180

All right, everybody, freeze where you are.

718

00:37:51,180 --> 00:37:52,280

Freeze where you are.

719

00:37:52,280 --> 00:37:54,280

That will conclude test number two.

720

00:37:54,280 --> 00:37:55,480

You guys are awesome.

721

00:37:55,480 --> 00:37:58,180

Thank you.

722

00:37:58,180 --> 00:38:00,280

You did a great job.

723

00:38:00,280 --> 00:38:03,180

All right, the results of our serpentine tests are in.

724

00:38:03,180 --> 00:38:04,180

And if you remember,

725

00:38:04,180 --> 00:38:07,880

the average wait time for our five individual lane shoppers

726

00:38:07,880 --> 00:38:10,180

was five minutes and thirty-nine seconds.

727

00:38:10,180 --> 00:38:13,480

The average wait time for the serpentine shoppers was

728

00:38:13,480 --> 00:38:15,980

six minutes and fifty-six seconds.

729

00:38:15,980 --> 00:38:21,880

Yes, seventy-seven seconds on average per shopper slower.

730

00:38:21,880 --> 00:38:23,180

What the hey?

731

00:38:23,180 --> 00:38:25,380

That's absolutely kind of mind-blowing to me.

732

00:38:25,380 --> 00:38:27,780

That's right, but here's where it gets interesting.

733

00:38:27,780 --> 00:38:30,280

Even though the serpentine moved slower,

734

00:38:30,280 --> 00:38:32,480

the customers actually liked it better.

735

00:38:32,480 --> 00:38:35,380

In fact, twice as many gave it a five.

736

00:38:35,380 --> 00:38:37,180

The top rating.

737

00:38:37,180 --> 00:38:39,180

Go figure.

738

00:38:39,180 --> 00:38:42,780

It's a result that's the complete opposite of the myth.

739

00:38:42,780 --> 00:38:46,880

The serpentine was slower, yet also more popular.

740

00:38:46,880 --> 00:38:49,480

And Adam thinks he knows why.

741

00:38:49,480 --> 00:38:51,780

So why is serpentine slower?

742

00:38:51,780 --> 00:38:53,380

Well, let's look at the individual lines first.

743

00:38:53,380 --> 00:38:57,580

The fastest time through those lines was two minutes and sixteen seconds.

744

00:38:57,580 --> 00:38:58,980

That is blazing fast.

745

00:38:58,980 --> 00:39:00,980

No bogies, quick cashier.

746

00:39:00,980 --> 00:39:02,480

Everyone's happy.

747

00:39:02,480 --> 00:39:05,280

But our fastest time in the serpentine was almost twice as slow,

748

00:39:05,280 --> 00:39:07,180

four minutes and thirty-three seconds.

749

00:39:07,180 --> 00:39:10,280

That's because the speed of the lines is averaged out

750

00:39:10,280 --> 00:39:12,180

across the entire group.

751

00:39:12,180 --> 00:39:13,180

And it brings it down.

752

00:39:13,180 --> 00:39:16,380

And when you add in the length of time it takes to get from the end of the line

753

00:39:16,380 --> 00:39:18,180

over to the next available cashier,

754

00:39:18,180 --> 00:39:22,180

well, it turns out you've added almost a minute to everyone's time.

755

00:39:22,180 --> 00:39:23,380

That's pretty amazing.

756

00:39:23,380 --> 00:39:25,380

Yep, it's slower for sure.

757

00:39:25,380 --> 00:39:27,380

But because it's also fairer,

758

00:39:27,380 --> 00:39:29,880

it's got the volunteer thumbs up.

759

00:39:34,880 --> 00:39:37,180

So how to call this myth is actually kind of interesting.

760

00:39:37,180 --> 00:39:37,980

Oh, so?

761

00:39:37,980 --> 00:39:40,680

Well, the myth as stated is that the serpentine method,

762

00:39:40,680 --> 00:39:43,380

the single long line is faster.

763

00:39:43,380 --> 00:39:46,180

And the implication is that it's therefore better.

764

00:39:46,180 --> 00:39:46,980

Right.

765

00:39:46,980 --> 00:39:49,980

But even though we found it was twenty-three percent slower.

766

00:39:49,980 --> 00:39:51,380

The customers liked it better.

767

00:39:51,380 --> 00:39:55,280

Yeah, so we're in this weird position of saying serpentine method is busted.

768

00:39:55,280 --> 00:39:56,280

But it's also better.

769

00:39:56,280 --> 00:39:57,380

Yeah, busted but better.

770

00:39:57,380 --> 00:39:58,280

That's cool.

771

00:39:58,280 --> 00:39:58,880

Let's get out of here.

772

00:39:58,880 --> 00:39:59,380

Okay.

773

00:39:59,380 --> 00:40:12,380

Back at their apocalyptic location.

774

00:40:12,380 --> 00:40:17,380

It's time for this last season's last stand.

775

00:40:17,380 --> 00:40:22,380

Against the zombies ultimate nemesis.

776

00:40:22,380 --> 00:40:23,880

Na na na na na.

777

00:40:23,880 --> 00:40:26,380

Karoovi.

778

00:40:26,380 --> 00:40:31,380

But will the legendary chainsaw beat the course record of sixty-seven kills?

779

00:40:31,380 --> 00:40:32,880

Okay, Adam.

780

00:40:32,880 --> 00:40:35,880

Three, two, one, go.

781

00:40:35,880 --> 00:40:36,880

Ah!

782

00:40:40,880 --> 00:40:43,380

Remember, Adam's rigged his replica.

783

00:40:43,380 --> 00:40:44,380

Ha ha ha ha!

784

00:40:44,380 --> 00:40:45,880

Zombie blood all over me!

785

00:40:45,880 --> 00:40:49,880

With a switch that lets him kill a zombie in three quarters of a second.

786

00:40:49,880 --> 00:40:51,880

Come on, come on, zombies, yes!

787

00:40:51,880 --> 00:40:57,880

Which means he's able to rack up his score faster than a death metal montage.

788

00:40:57,880 --> 00:40:59,380

Ah yes!

789

00:40:59,380 --> 00:41:01,380

Oh, this is awesome!

790

00:41:01,380 --> 00:41:02,380

Ah!

791

00:41:02,380 --> 00:41:03,380

Ah!

792

00:41:03,380 --> 00:41:04,380

Ah!

793

00:41:04,380 --> 00:41:05,380

Yes!

794

00:41:05,380 --> 00:41:06,380

Ah!

795

00:41:06,380 --> 00:41:07,380

Ah!

796

00:41:07,380 --> 00:41:08,380

Ah!

797

00:41:08,380 --> 00:41:11,380

With minimal reset time and little fatigue.

798

00:41:11,380 --> 00:41:12,380

Oh!

799

00:41:12,380 --> 00:41:13,380

Ah!

800

00:41:13,380 --> 00:41:14,380

Oh, I'm falling into zombies!

801

00:41:14,380 --> 00:41:15,380

Ah!

802

00:41:15,380 --> 00:41:20,380

It's only four manic minutes until Adam is the last man standing.

803

00:41:20,880 --> 00:41:21,880

Ah!

804

00:41:21,880 --> 00:41:22,880

Ah!

805

00:41:22,880 --> 00:41:23,880

Ah!

806

00:41:23,880 --> 00:41:24,880

Yes!

807

00:41:24,880 --> 00:41:25,880

Woo!

808

00:41:25,880 --> 00:41:31,880

I killed all the zombies!

809

00:41:31,880 --> 00:41:35,880

It's a final season scene of utter devastation.

810

00:41:35,880 --> 00:41:41,880

All 190 zombie volunteers are dead and buried.

811

00:41:41,880 --> 00:41:45,880

It's been a few decades since I was a mediocre student, but I remember enough to remember

812

00:41:45,880 --> 00:41:49,880

that a really good score is a hundred percent.

813

00:41:49,880 --> 00:41:53,380

I got so many zombies I killed and it feels good.

814

00:41:55,380 --> 00:42:00,380

With a success rate that's second to none, the chainsaw status as the ultimate end of

815

00:42:00,380 --> 00:42:04,380

the world weapon is well and truly confirmed.

816

00:42:04,380 --> 00:42:09,380

But that's not the only top tip from the misbusters.

817

00:42:09,380 --> 00:42:14,380

So after all that we've learned with dealing with zombies, what's your plan in the zombie apocalypse?

818

00:42:14,380 --> 00:42:15,380

Run!

819

00:42:15,380 --> 00:42:16,380

Run!