

Wow this shoe is big!

Brian's crazy. I think his kid took this picture. That shoe can't belong to a real human being, can it?

Brian is about 5 feet 10 inches tall. He says that he wears a size 10 shoe. Here's a pic of his foot next to that humongous shoe.



We found the chart below for converting shoe sizes to inches or centimeters.

1. Try to figure out what size this shoe might be. Explain your reasoning and be ready to share your method in class.

2. Do you think there are really any people with this size foot?

One study¹ found that the average foot length to height comparison is 6 feet 6 inches of height to 12 inches of foot length.

3. Does Brian's foot size accurately reflect his height?

4. How tall might the person who could wear this shoe be?

Men's Size Conversions				
US Sizes	Euro Sizes	UK Sizes	Inches	CM
6	39	5.5	9.25"	23.5
6.5	39	6	9.5"	24.1
7	40	6.5	9.625"	24.4
7.5	40-41	7	9.75"	24.8
8	41	7.5	9.9375"	25.4
8.5	41-42	8	10.125"	25.7
9	42	8.5	10.25"	26
9.5	42-43	9	10.4375"	26.7
10	43	9.5	10.5625"	27
10.5	43-44	10	10.75"	27.3
11	44	10.5	10.9375"	27.9
11.5	44-45	11	11.125"	28.3
12	45	11.5	11.25"	28.6
13	46	12.5	11.5625"	29.4
14	47	13.5	11.875"	30.2
15	48	14.5	12.1875"	31
16	49	15.5	12.5"	31.8

Sources:

<https://www.guinnessworldrecords.com/news/2018/6/customised-shoes-made-for-man-with-the-largest-feet-after-they-grow-even-bigger?>

¹<https://www.livestrong.com/article/491821-height-to-foot-size-ratio/>