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1,910	,000,000 n	m —	191
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	,000,000 n		
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1,850	,000,000 n	m	185
1,840	,000,000 n	m	184
1,830	,000,000 n	m	183
1,820	,000,000 n	m	182
1,810	,000,000 n	m	181
<b>1,800,000,000 nanon</b> (one billion, eight hundred million nar			180 cm
	,000,000 n	m	179
1,780	,000,000 n	m	178
1.770	,000,000 n		177
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1,740	,000,000 n	m —	174
1,730	,000,000 n	m	173
1,720	,000,000 n	m —	172
1,710	,000,000 n	m	171
1,700,000,000 nanon one billion, seven hundred million nar	neters		170 cm
1,690	,000,000 n	m	169
1,680	,000,000 n	m	168
1,670	,000,000 n	m	167
1,660	,000,000 n		166
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	,000,000 n		
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<b>1,600,000,000 nanon</b> (one billion, six hundred million nar	neters		160 cm
1,590	,000,000 n	m	159
1,580	,000,000 n	m	158
1,570	,000,000 n	m —	157
1,560	,000,000 n	m	156
1,550	,000,000 n	m	155
1,540	,000,000 n	m	154
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1,470	,000,000 n	m	147
1,460	,000,000 n	m	146
1,450	,000,000 n	m —	145

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67

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5 feet

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\_\_\_\_\_ 66 \_\_\_\_\_

72 in

6 feet

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#### How Tall Are You?

### Try measuring yourself in nanometers!

Are you super tall—or is a nanometer super small?

One meter is a billion nanometers. (A meter is a little longer than a yard.)

So if you're a little over three feet tall, you measure a billion nanometers! That sounds pretty impressive, but it doesn't mean that you're super tall it means that a nanometer is incredibly small.

Here are some other ways to think about how tiny a nanometer is:

- The ridges in your fingerprints are around 250,000 nanometers wide.
- A strand of your hair is around 75,000 nanometers wide.
- Your DNA is 2 nanometers wide.
- Your fingernails grow
   1 nanometer every second.

## What's measured in nanometers?

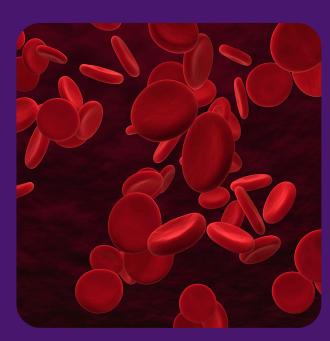
A nanometer is a billionth of a meter. That's really, really tiny!

Nanometers are used to measure things that are too small to see, like parts of a cell or DNA. It takes a lot of nanometers to measure something relatively big, like you.

1,420,000,000	nm	 144		
1,+10,000,000	nm	 142	 56	
1,410,000,000 1,400,000,000 nanometers (one billion, four hundred million nanometers)			 55	
1,390,000,000			 	
1,380,000,000 1,370,000,000			 54	
1,360,000,000				
1,350,000,000 1,340,000,000			 53	
1,330,000,000			 52	
1,320,000,000 1,310,000,000			 52	
<b>1,300,000,000 nanometers</b> (one billion, three hundred million nanometers)			 51	
1,290,000,000 1,280,000,000				
1,270,000,000 1,260,000,000			 50	
1,250,000,000			 49	
1,240,000,000 1,230,000,000			 	
1,220,000,000			 	48 in 4 feet
1,210,000,000 1,200,000,000 nanometers				
(one billion, two hundred million nanometers) <b>1,190,000,000</b>	nm	 119	 47	
1,180,000,000 1,170,000,000			 46	
1,160,000,000	nm	 116	 40	
1,150,000,000 1,140,000,000			 45	
1,130,000,000				
1,120,000,000 1,110,000,000			 44	
<b>1,100,000,000 nanometers</b> (one billion, one hundred million nanometers)			 43	
1,090,000,000 1,080,000,000				
1,070,000,000 1,060,000,000			 42	
1,050,000,000				
1,040,000,000 1,030,000,000			 41	
1,030,000,000			 40	
1,010,000,000 1,000,000,000 nanometers				
(one billion nanometers) <b>990,000,000</b>	nm	 99	 39	
980,000,000 970,000,000				
960,000,000	nm	 96	 38	
950,000,000 940,000,000			 37	
930,000,000	nm	 93		
920,000,000 910,000,000			 	36 in 3 feet
900,000,000 nanometers (nine hundred million nanometers)				
890,000,000 880,000,000			 35	
870,000,000 860,000,000			 34	
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820,000,000 810,000,000			 32	
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690,000,000 680,000,000			 27	
670,000,000	nm	 67		
660,000,000 650,000,000			 26	
640,000,000 630,000,000			 25	
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610,000,000		 62		
600,000,000 nanometers		 61	 	24 in 2 feet
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A child is about 1,000,000,000 nanometers tall.



A red blood cell is about 10,000 nanometers wide.



DNA is about 2 nanometers wide.



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