

Díaz units of measurements








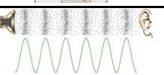


Hi, my name is Tomás Díaz, your event supervisor for today's Fermi Questions. I decided to have some fun, add a twist and make my own narcissistic unit of measurement for different quantities: The **Díaz**. This unit will be used for different quantities or types of measurements throughout the exam. The table below contains an explanation of each of the units and a space for each where you can enter the equivalent value of 1 Díaz for its respective SI or derived SI unit to help you use it in your calculations. This sheet will not be scored and it is only meant to help you with this unusual system of measurement. It is after all an unusual unit of measurement. (Enter your conversion factors here in non-Fermi answers. That is, if 1km is 1000meters, enter 1,000 instead of 3)

Base or Derived Quantity	Description	SI or SI derived equivalency		
Length	Height of Mr Díaz	1 Díaz =		Meters
Volume	Volume of Mr Díaz	1 Díaz =		Cubic Meters
Mass	Mass of Mr Díaz	1 Díaz =		Grams
Force	Gravitational force that Mr Díaz exerts on Earth at water level.	1 Díaz =		Newton
Energy	The average daily amount of energy that Mr. Díaz spends	1 Díaz =		Joules
Power	The amount power Mr. Díaz produces at rest.	1 Díaz =		Watts
Temperature	The temperature of Mr. Díaz at rest with zero Díaz equal to the absolute zero.	1 Díaz =		Kelvin
Pressure	The amount of pressure Mr. Díaz exerts on the ground when wearing normal shoes.	1 Díaz =		Pascals
Electric current	The amount of current needed to kill Tomas Diaz	1 Díaz =		Amperes
Frequency	Heart beats per unit of time that Tomas produces at rest.	1 Díaz =		Hertz
Time	Total time that Mr. Diaz has been alive.	1 Díaz =		Seconds
Speed	The average speed that Mr. Díaz can run a marathon	1 Díaz =		Meters per second
Angular Velocity	The angular velocity of Mr. Díaz, while on Earth around the Sun	1 Díaz =		radians per second
Volumetric Flow Rate	The volumetric flow rate of Mr. Díaz' heart at rest	1 Díaz =		Cubic Meters per second
Brain capacity	Total amount of neurons in Mr. Diaz's brain.	1 Díaz =		Neurons
Currency	The amount of US dollars that Mr. Díaz' Amazon stock holdings would be worth today if he wouldn't have sold his \$5000 worth of Amazon stock at the end of 1997.	1 Díaz =		US Dollars
Molecular	Amount of molecules of Mr. Díaz	1 Díaz =		Molecules
Unitless	No units, one Díaz = 1	1 Díaz =	1	unit

2024 Plymouth Canton Invitational. Fermi Questions.

*** NOTE: Please refer to the Díaz units of measurements page so that you can use the appropriate Díaz units in these Fermi Questions**

Q	Illustration	Fermi Question	F.A.
1		What is the brain capacity in Díaz of Mr Díaz's cat's brain? (yes, that's a picture of my cat on the left)	
2		How many Díaz of current does it take to operate a standard electric stove in a house?	
3		How many Díaz of power do you need to run a Tesla at highway speeds?	
4		What is the mass of the Earth in Díaz?	
5		What is the Volume of the Earth in Díaz?	
6		What is Earth's rotational speed in Díaz units of angular velocity?	
7		What is Earth's core temperature in °Díaz?	
8	Yotta-yocto?	How many YottaDíaz in one yoctoDíaz? (Which Díaz unit of measurement is irrelevant on this question)	
9		What is the box office sales of that horrible movie Barbie that my wife dragged me to see with her in Díaz?	
10		The amount of time in Díaz that my wife made me waste watching that horrible Barbie movie including the driving time to the theater and getting ready to go out?	
11		What is the age of the Universe in Díaz?	
12		How many Díaz molecular units of molecules of water in the atmosphere?	
13		How many Díaz molecular units of molecules of sugar are in one standard can of Coca Cola?	
14		In Díaz, what's the frequency of your favorite FM radio station?	
15		In Díaz, what's the wavelength of your favorite FM radio station wave?	
16		Elon Musk's net worth today in Díaz?	
17		Market cap of GM in Díaz?	
18		How much is a US penny worth in Díaz?	
19		What is the kinetic energy of a Cheetah at maximum speed in Díaz units of energy?	
20		What is the gravitational force of Mr Díaz on Jupiter in Díaz unit of force?	
21		What is the potential energy of Mr Díaz on top of Everest with reference to the sea level in Díaz unit of energy?	
22		How may Díaz of pressure will the water pressure halfway to the bottom of the Mariana's Trench be?	
23		When Mr. Díaz fills his car tires with air, how many Díaz of pressure will he fill his car tires to?	
24		How fast does Mr. Díaz' hair grow in Díaz unit of speed?	

25		What is the Niagara Falls average flow rate in Díaz unit of volumetric flow rate?	
26		What is the ideal refrigerator temperature in °Díaz ?	
27		What is the average room temperature in °Díaz ?	
28		What is the boiling temperature of water in °Díaz ?	
29		What is the melting temperature of steel in °Díaz ?	
30		How much time in Díaz will it take Mr. Díaz to hike all of the Appalachian trail assuming no rest stops and no loss of performance?	
31		How much time in Díaz did Mr. Díaz give you to finish this test?	
32		What is the surface area of Michigan in Díaz² ?	
33		What is the population density of Michigan in people per Díaz² ?	
34		What is the density of water in Díaz unit of mass per Díaz unit of volume ?	
35		If Mr Díaz jumps from the highest point of this building where you're taking this exam onto a contraption that transfers all of his potential energy without losses as kinetic energy to launch a baseball into the air, what is the magnitude of the initial velocity of the baseball in Díaz when launched?	
36		If Mr. Díaz shoots a target with his 9mm Glock, what is the exit speed of that bullet in Díaz ?	
37		What is the kinetic energy of that bullet in Díaz units of energy?	
38		The target is a large watermelon covered with a high tech Kevlar coating of negligible weight that prevents the watermelon from getting pierced by the bullet but contains the bullet upon impact. Using conservation of momentum, what is the speed in Díaz of the watermelon with the bullet after the impact?	
39		What is TWICE the angular speed of a passenger car's engine at idle in Díaz units of angular speed?	
40		Sound intensity, can be measured in deciBells or Watts per m ² . For Mr. Díaz' eardrum, what is the sound pressure threshold of <i>pain</i> in Díaz units of power per Díaz² ?	
41	$\sum_{k=0}^{2024} k^2$	In unitless microDíaz , what is $\sum_{k=0}^{2024} k^2$?	
42	$\sum_{k=0}^{2024} 2^k$	In unitless Díaz , what is $\sum_{k=0}^{2024} 2^k$?	
43		What is the total number of diagonals on a regular polygon with 2024 sides?	
44		In how many possible ways can you arrange a standard deck of playing cards?	
45		How many possible combinations of a 3x3x3 Rubik's cube?	
46		In unitless GigaDíaz , what is the probability of winning the grand prize on the multi-state Powerball lottery?	
47		In 2017 Mr. Beast went viral counting to what number in unitless MegaDíaz ?	
48		How many subscribers does Mr. Beast currently have?	