

LU04.A03 - Storage capacity of a blank DVD disc

Initial situation

You buy a single-layer blank DVD disc in a shop. The packaging says 8.4 GB. You know from your ICT lessons that the information on the packaging is a technical interpretation (1KB = 1000 bytes).

Vielfache zur Basis 2			Vielfache zur Basis 10		
1 Byte [B]	= 2 ³ bit	= 8 bit	1 Byte [B]	= 2 ³ bit	= 8 bit
1 Kibibyte [KiB]	= 2 ¹⁰ Byte	= 1.024 B	1 Kilobyte [KB]	= 10 ³ Byte	= 1.000 B
1 Mebibyte [MiB]	= 2 ²⁰ Byte	= 1.048.576 B	1 Megabyte [MB]	= 10 ⁶ Byte	= 1.000.000 B
1 Gibibyte [GiB]	= 2 ³⁰ Byte	= 1.073.741.824 B	1 Gigabyte [GB]	= 10 ⁹ Byte	= 1,0 · 10 ⁹ B
1 Tebibyte [TiB]	= 2 ⁴⁰ Byte	= 1,0995 · 10 ¹² B	1 Terabyte [TB]	= 10 ¹² Byte	= 1,0 · 10 ¹² B
1 Pebibyte [PiB]	= 2 ⁵⁰ Byte	= 1,1259 · 10 ¹⁵ B	1 Petabyte [PB]	= 10 ¹⁵ Byte	= 1,0 · 10 ¹⁵ B

Task

1. What does a computer display that interprets the memory size in binary (1KiB = 1024 bytes)?
(The result is correctly rounded to one digit)

General conditions

What	Description
Product:	Your answers are written.
Time:	20 min.
Social form:	Individual or partner work
Work equipment:	Office or paper/writing utensils, script

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