Units of Information

Q1. A file is 8 MegaBytes. Convert 8 MegaBytes to Bytes. You should show your working

The colour coding on these slides is so as you know which question you're working on - nothing else

Units of Information

Q1. A file is 8 MegaBytes. Convert 8 MegaBytes to Bytes. You should show your working

- Larger units (MB) to smaller units (B) so **multiply**
- No bits involved, so just 1000s

Units of Information

Q1. A file is 8 MegaBytes. Convert 8 MegaBytes to Bytes. You should show your working

8 MB x 1000 = 8000 kB

Units of Information

Q1. A file is 8 MegaBytes. Convert 8 MegaBytes to Bytes. You should show your working

8 MB x 1000 = 8000 kB

8000 kB x 1000 = 8,000,000 Bytes

Units of Information

Q2. A file is 16,000 bits. Convert 16,000 bits to kB. You should show your working

Units of Information

Q2. A file is 16,000 bits. Convert 16,000 bits to kB. You should show your working

- Going from smaller unit (bits) to Bytes - so **divide**
- bits to Bytes first, so 8
- then 1000s

Units of Information

Q2. A file is 16,000 bits. Convert 16,000 bits to kB. You should show your working

16,000 b / 8 = 2,000 Bytes

Units of Information

Q2. A file is 16,000 bits. Convert 16,000 bits to kB. You should show your working

16,000 b / 8 = 2,000 Bytes

2000 B/1000 = 2 kB

Units of Information

Q3. A file is 4 kiloBytes. Convert 16 Bytes to bits. You should show your working

- Larger unit to smaller, so multiply
- bits involved so x 8 when converting to bits

Units of Information

Q3. A file is 4 kiloBytes. Convert 16 Bytes to bits. You should show your working

4kB x 1000 = 4,000 B

4000 x 8 = 32,000 bits

Units of Information

Multiply or divide?

A. MB to kB

B. kB to GB

C. GB to TB

D. B to b

E. b to kB

F. GB to b

Units of Information

TB

B

GB

MB

kB

b