Year 8 Term 2 Computing test

Topic 2: Data on the web



Name:	
Class:	Date:

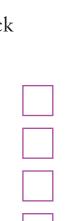
- 1 Mr Agarwal is putting together some notes for a student revision guide on data storage.
 - a) Complete the table below.

Unit of storage	Equivalent units of storage
1 kibibyte (KiB)	
	1024 kibibytes
	1024 mebibytes

b) The International Electrotechnical 3.3.4 Commission units of storage are base-2 units.

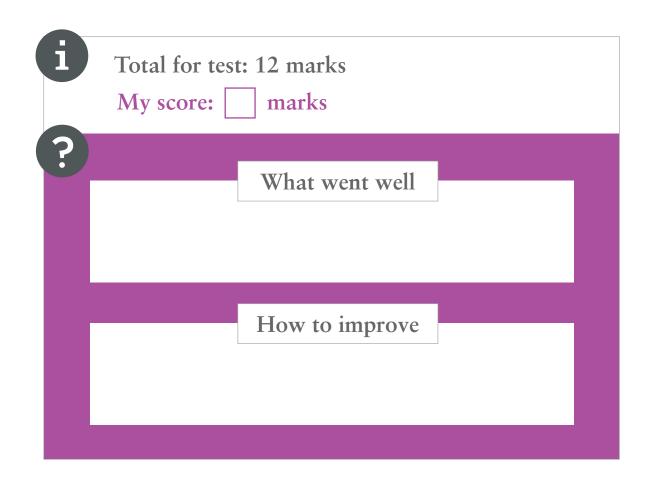
What units are used for data transfer? Tick one box.

A	base-10	
R	base-2	



Mir	Mira is organising her files into folders.		
	has f	ound four types of file: photo, document, usic.	
a)		the four types of file in order of typical file. Put the smallest first.	-
			-
b)	One word-processed document is 8,000,000 bits in size. How many bytes is this? Tick one box.		
	A	640,000]
	В	1,000,000	
	C	8000	
	D	102,400]
c)	Some of the video files that Mira has found are billions of bits in size.		1
		at would be the most appropriate unit of cage?	

3	When you are creating graphics for a smartphone game, it is important to keep file sizes small. A programmer is using RLE to do this.				
	a)	Wh	What does RLE stand for? Tick one box.		
		A	Real Level Enhancement		
		В	Robust Letter Encoder		
		C	Run Length Encoding		
		D	Risk Limitation Encoder		
	b) Convert these Black (B) and White (W) image sequences using RLE.				1
		(i)	WWWWBBWBWWWBBB		
		(ii)	BBBBBWWWBWWWBBB		2
4			es programmers need to keep a file in its tate and not lose any information by using		
	compression.				
	Des files		two situations when you should not use lossy		
1_					
2					
					2



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