

Is an array a variable or a data	What is the file size (in bytes) of a 4	How many characters are stored in
structure? Explain your answer.	bit image with dimensions 20x20?	the standard ASCII set?
What is the name of a subroutine that returns a value back to the main program?	How many colours can a 4 bit image hold?	What does IDE stand for?

6 A Day LITE

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What is the file size (in bytes) of a 4 bit image with dimensions 20x20?	How many characters are stored in the standard ASCII set?
200 Bytes If the dimensions are 20×20, that means that the image will have 400 pixels (20 multiplied by 20). As it is a 4 bit image, each pixel will be represented by a number 4 bits in length. This means that the file will have 1600 bits of data (400 x 4). To convert bits into bytes we simply need to see how many sets of 8 bits the number contains so we divide by 8. 1600 bits / 8 = 200 bytes. The image will therefore be 200 bytes in size.	The standard ASCII set just contains 128 characters, which can be represented in 7 bits.
How many colours can a 4 bit image hold?	What does IDE stand for?
16 Colours	Integrated Development Environment
	bit image with dimensions 20x20? 200 Bytes If the dimensions are 20×20, that means that the image will have 400 pixels (20 multiplied by 20). As it is a 4 bit image, each pixel will be represented by a number 4 bits in length. This means that the file will have 1600 bits of data (400 x 4). To convert bits into bytes we simply need to see how many sets of 8 bits the number contains so we divide by 8. 1600 bits / 8 = 200 bytes. The image will therefore be 200 bytes in size. How many colours can a 4 bit image hold?