

Name:

Period:

For the problems on this page use the following information:

1 word document=100 kb 1 song = 3 mb 1 photo (3648x2736)=3 mb 1-90 min. video (movie)= 1.3 gb 1-30 minute video = 350 mb 1-3 minute video = 20 mb	1000 kilobytes = megabyte 1000 megabytes = gigabyte 1000 gigabytes = terabyte	Floppy disk = 1.3 mb CD = 700 mb DVD-R = 4.7 gb USB flash drive=8 gb External Drive=500 gb
------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------

- 1) How many megabytes is the USB flash drive?
- 2) How many songs can I fit on the 8 gb flash drive?
- 3) How many word documents can I fit on the 8 gb flash drive?
- 4) If the 8 gb flash drive cost \$14, how much does the flash drive cost per gigabyte?
- 5) If the 500 gb external drive cost \$120, how much does the external drive cost per gigabyte?
- 6) What is the best buy per gigabyte of storage between the flash drive and the external drive?
- 7) If my webmail gives me 2 gb of disk storage space, and I was already using 1 gb, a friend send me an e-mail with 2 pictures that the size is 250 mb each, will I have enough space on my web mail account to receive both e-mail attachments (pictures)? How much space?
- 8) If my USB flash drive already has 7.25 gb filled up on the drive, can I back up the two 250 mb pictures from my e-mail?
- 9) What is the total space that I will use (7.25 gb + 250 mb + 250 mb)?
- 10) I just recently purchased an 8" digital picture frame with 500 mb of disk space for \$50. How many pictures can I put on this frame?
- 11) Another 8" frame stores 1 gb. It cost \$85. How many pictures will this store?
- 12) On the network, each student is allowed 1 gb of storage space. A 30-minute iMovie (video) uses 350 mb of the allowed space. How many 30 minute videos can I store on my network folder?



13) The new iPod nanos can store music and record video. They cost \$149 and start with 8 gb of storage space. According to Apple, it can hold 8 to 16 hours of video. So, according to Apple, if it can hold 8 hours of video, how many megabytes will it use for each hour? Each minute of video? Each second? What if the nano held 16 hours of video, how many megabytes will it use for each



Nano	8 hours	16 hours
Gb/hour	8/8=1 gb	16/8=2 gb
Mb/hour		
Mb/min		
Mb/sec		



14) The flip video camera claims to hold 120 minutes of video on it's 8 gb model. It costs \$200. Will the ipod or the flip camera be the better value? Why?

15) What if the resolution (the clarity and size of the video) of the flip is high definition (approximately twice the resolution as the nano camera-1280 x 720 pixels for the flip, vs. 640 x 480 pixels for the nano). Using that information, what is the better value? Why?

16) If I want to upgrade the Operating System of my computer to the latest version, but it requires 1 gb of disk space on your drive. You have 5,000 mb free space. Can I upgrade the software?