

Megabytes of Memory

Activity

Memory cards hold digital files. The amount of data they hold is given in megabytes (MB).

Beth needs to buy 3 memory cards for her school's digital cameras. She found cards with these prices:

i. 32MB \$50.00

ii. 64MB \$80.00

iii. 128MB \$120.00

iv. 256MB \$160.00

v. 512MB \$190.00

I'll organise all the information in a table so that I can spot the patterns.



32 MB ... Each megabyte holds 5 photos. So that's ...

32 MB					
5	5	5	5	5	5



1. Is there a relationship between the price and the size (capacity) of the cards?
2. Each megabyte of data is enough to store about 5 low-resolution digital photographs. How many photographs would fit on each of the memory cards that Beth is looking at?
3. a. Beth has \$250 to spend on the 3 cards. What 3 cards can she buy? Explain your answer.
b. Which option would give her the most photographs altogether?
4. Investigate how much memory high-resolution photographs use. How many high-resolution photographs would fit on each of the cards that Beth is looking at?