To calculate how many images Jessica can store on her 5MB USB flash memory drive, we need to follow these steps:

- 1. Determine the size of one thumbnail image in bytes:
 - Each thumbnail image is 100 pixels wide and 100 pixels high.
 - This gives us a total of \(100 \times 100 = 10,000\) pixels per image.
 - Each pixel is 16 bits in color.
 - Since there are 8 bits in a byte, each pixel is 16/8 = 2 bytes.
 - Therefore, the size of one image in bytes is $10,000 \times 2 = 20,000 \text{ bytes}$.
- 2. Convert the total available storage from MB to bytes:
 - 1 MB = 1,024 KB and 1 KB = 1,024 bytes.
 - Thus, 1 MB = 1,024 X 1,024 = 1,048,576 bytes.
 - Therefore, $5 \text{ MB} = 5 \text{ X} 1,048,576 = 5,242,880 bytes.}$
- 3. Calculate the number of images that can be stored:
 - Divide the total storage available by the size of one image:

Number of images = (5,242,880 bytes) / (20,000 bytes/image) = 262.144

- Since Jessica can't store a fraction of an image, she can store a whole number of images.

Thus, Jessica can store 262 images on her 5MB USB flash memory drive.

Number of image = 262