B-trees

Given the following parameters:

- Disk access time = 1 milli-sec per byte
- 1 Page on disk = 2048 bytes
- Key = 20 bytes
- Pointer = 4 bytes
- Data = 256 bytes per record (includes key)

What are the best values for: (Show your work for full credit.)

\[ M = 86 \]
\[ L = 8 \]

\[ L \cdot 256 = 2048 \]
\[ L = \frac{2048}{256} = \frac{2^11}{2^8} = 2^3 = 8 \]

7) B-trees: Insert the following values in this order into a B-tree with \( L = 2 \) and \( M = 3 \):

(5, 4, 7, 3, 2, 1, 9, 8, 6)