So each block contains 16384 = 32 sectors and 31 gaps. And given 2011 of each track is used for gaps.

-And there are 1000 gaps per track.

7 Transfer time =
$$\left(\frac{31}{1000} \times \frac{20}{1000} + \frac{32}{1000} \times \frac{80}{1000}\right) \times 6 \text{ m/s}$$

= 0.1908 ms

Average seek time

If head is at cylinder 1 or cylinder 10000, then
the average number of tracks to move is

1+2+3+--+4999

5000:

The average distance travelled by the head is one third of the way across the disk, i.e; 9999 = 3333 cylinders.

⇒ Average seek time = 1+ 0.001×3333

= 4.333 ms

Average

⇒ Time taken for I/o between disk and main memory

⇒ Time taken for I/o between disk and main memory

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= 7.5238 ms