

# MEASURING TIME

1 Two digital stopwatches X and Y, which record in minutes and seconds, are used to time a race.

The readings of the two stopwatches, at the start and at the end of the race, are shown.

	start	end
stopwatch X	00:00	00:40

	start	end
stopwatch Y	01:30	02:20

Which statement about the time of the race is correct?

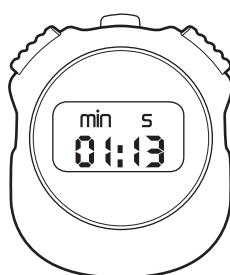
- A Both stopwatches record the same time interval.
- B Stopwatch X recorded 10 s longer than stopwatch Y.
- C Stopwatch Y recorded 10 s longer than stopwatch X.
- D Stopwatch Y recorded 50 s longer than stopwatch X.

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2 A student uses a stopwatch to time a runner running around a circular track. The runner runs two laps (twice around the track). The diagrams show the reading on the stopwatch when the runner starts running, at the end of the first lap, and at the end of the second lap.



reading when runner starts



reading at end of first lap



reading at end of second lap

What is the time taken for the runner to run the second lap?

- A 0 min 50 s
- B 1 min 10 s
- C 1 min 13 s
- D 2 min 03 s

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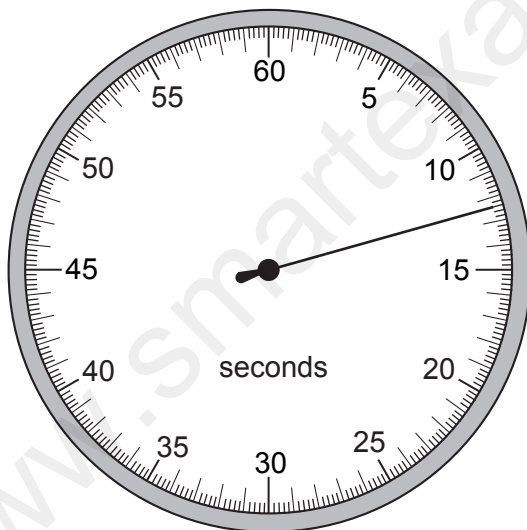
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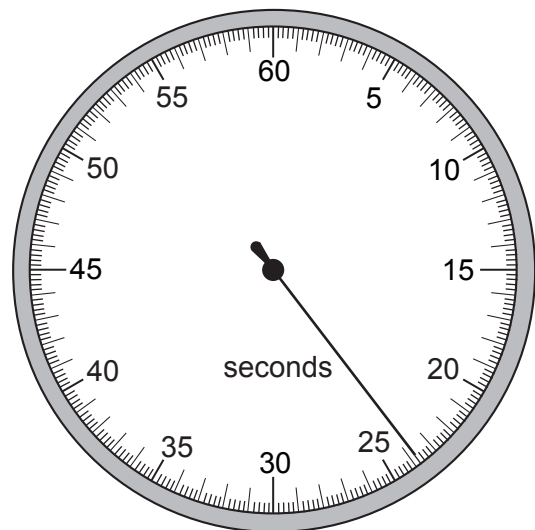
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- 4 A stopwatch is used to time an athlete running 100 m. The timekeeper forgets to reset the watch to zero before using it to time another athlete running 100 m.



stopwatch at end of first athlete's run



stopwatch at end of second athlete's run

How long does the second athlete take to run 100 m?

- A 11.2 s
- B 11.4 s
- C 12.4 s
- D 23.8 s