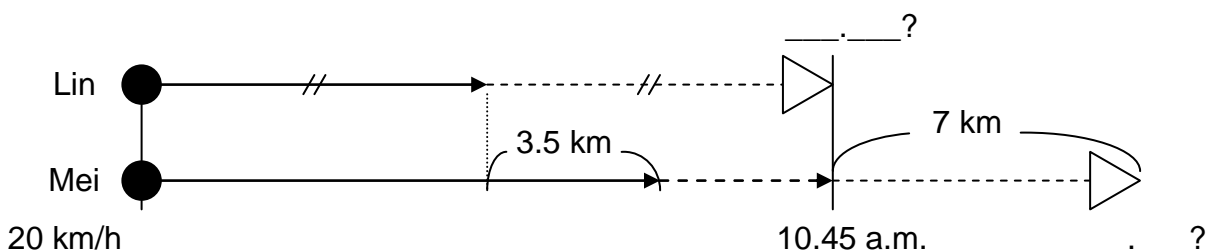


A Maths Question, PSLE 2009

Mei and Lin were in a bicycle race. Mei was travelling at a constant speed of 20km/h and they both did not change their speed. When Lin completed half the race, Mei was 3.5 km ahead. Mei completed the race at 10.45 a.m. What time did Lin complete the race?

Diagram



Writing

When Lin completed half of the race, Mei was 3.5 km ahead of Lin.

So, when Lin completed the race, Mei would be 7 km over the end-line if Mei never stopped.

$$2 \times 3.5 \text{ km} = 7 \text{ km}$$

To cover 7 km, how many minutes does Mei need?

$$7 \div 20 = \frac{7}{20} \text{ h}$$

$$\frac{7}{20} \times 60 = 21 \text{ min}$$

21 min later than 10.45 a.m. \rightarrow 11.06 a.m.

Ans. 11.06 a.m.