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Question 35

Oscar and Pete are travelling to Mt Stone, 32km away. Oscar can hike at 12km/h but Pete can only hike at 8km/h. If Oscar started hiking at 11:15am, at what time should Pete have started so that they can arrive at Mt Stone together?

Oscar takes amount of time

12 km/h ←
32 km

2 hours + 40 mins

→ has 8 km left → 40 mins
in 20 min, he travels 4 km

11:15 am + 2 hrs + 40 mins

$$= 1:55 \mu m$$

Pete takes 4 hours

1:55 pm back 4 hours \rightarrow 9:55 am

9:15 am

9:55 am

10:20 am

10:45 am



11:00 am

Correct answer:

9:55 am



Hint:

Oscar: $32 \div 12 = 2\text{h } 40\text{ min}$

Pete: $32 \div 8 = 4h$

Oscar arrived: $11:15 + 2:40 = 1:55\text{pm} = 13:55$

Pete must start : $13:55 - 4:00 = 9:55\text{am}$

