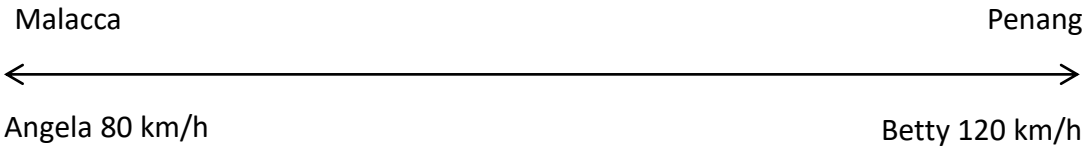
Skill Set 11 – Traveling towards each other (Speed)

Angela started her journey from Malacca to Penang traveling at a speed of 80 km/h. Betty drove from Penang towards Malacca at a speed of 120 km/h. Both started their journey at 6 am. If the distance between Malacca and Penang is 500km, find the time when they met each other.



Combined speed of Angela and Betty = 120 + 80 = 200 km/h

When they meet each other, their combined distance will be the distance between Malacca and Penang.

$\frac{500}{200} = \frac{5}{2} = 2\frac{1}{2}$ hrs

Time when they met each other = 0600 +0230 = 0830 = **8:30am**

Angela will meet Betty at **8:30am**.