

November 13th

Two sports cars are 660 miles apart and head towards each other at 78mph and 98mph.

At the same time, a superbee flies back and forth between the two cars at 132mph from when the cars start until they pass each other.

How far will superbee fly?



First work out how long before they pass.....

They travel a combined speed of 176mph, over 660 miles, so it will take

$$660 \div 176 = 3 \frac{3}{4} \text{ hours}$$

Superbee flies until they meet, at a constant speed, so her distance is

$$132 \times 3.75 = \mathbf{495 \text{ miles}}$$