a)

Jessica runs for 15 minutes at an average speed of 6 miles per hour.
She then runs for 40 minutes at an average speed of 9 miles per hour.
It takes Amy 45 minutes to run the same total distance that Jessica runs.
Work out Amy's average speed.
Give your answer in miles per hour.

How far does Jessica run in the first 15 minutes?

How far does Jessica run in the next 40 minutes?

How far does Amy run in total?

What is Amy's average speed?

1.5 miles +6 miles $=7.5$ miles

b)

Jessica runs for 20 minutes at an average speed of 9 miles per hour.
She then runs for 50 minutes at an average speed of 6 miles per hour.
It takes Amy 40 minutes to run the same total distance that Jessica runs.
Work out Amy's average speed.
Give your answer in miles per hour.

How far does Jessica run in the first 15 minutes?

How far does Jessica run in the next 50 minutes?


How far does
Amy run in total?

What is Amy's average speed?

d)

Jessica runs for 24 minutes at an average speed of 6 miles per hour. She then runs for 20 minutes at an average speed of 12 miles per hour.

It takes Amy 48 minutes to run the same total distance that Jessica runs.
Work out Amy's average speed.
Give your answer in miles per hour.

