

Algebra Word Problem

Distance Word Problem (Same Direction)

A car leaves a city traveling at 50 km/h. Two hours later, another car leaves the same city traveling at 70 km/h in the same direction. How long will it take for the second car to catch up to the first car?

Solution:

Define the variables:

Let t = time taken for the second car to catch up (in hours).

The time taken for the first car would be $t + 2$ since it has a 2-hour head start.

Set up the table & equation:

Formula: Distance = Rate x Time

	Rate (km/h)	Time (h)	Distance (km)
First Car	50	$t + 2$	$50(t + 2)$
Second Car	70	t	$70t$

When the second car catches up to the first car, both their distances are equal: $70t = 50(t+2)$

Solve the equation:

$$70t = 50(t + 2)$$

$$70t = 50t + 100$$

$$20t = 100$$

$$t = 5$$

Answer:

The second car will catch up to the first car after 5 hours.

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