

Working with hours and minutes

Let's go back to example 3 that we didn't answer on the factsheet Calculating time introduction.

Example

What is two hours and twenty minutes added to six hours and forty minutes?

Answer: there are two methods you can use:

Method 1 First add together the hours and minutes separately:

$$2 + 6 = 8$$
 hours and $20 + 40 = 60$ minutes

This 60 minutes makes another hour (remember 60 mins = 1 hour). So add this hour to the other 8 hours.

$$8 + 1 = 9$$

The answer is 9 hours.

Method 2 A longer method that can be useful when you're taking away is to change both amounts into minutes first.

2 hours 20 minutes is $2 \times 60 + 20 = 140$ minutes 6 hours 40 minutes is $6 \times 60 + 40 = 400$ minutes

Adding them gives:

140 + 400 = 540 minutes.

To change this into hours divide by 60:

 $540 \div 60 = 9$

The answer is 9 hours.

Method 1 is the best to use for adding amounts or for taking away when the number of minutes to be subtracted is less, eg 5 hrs 20 mins, minus 3 hrs 10 mins. If this is not the case, use method 2.

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