## 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:

$$
140+400=540 \text { minutes } .
$$

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.

