

Week 6 Lesson 5

Can I add and subtract time?

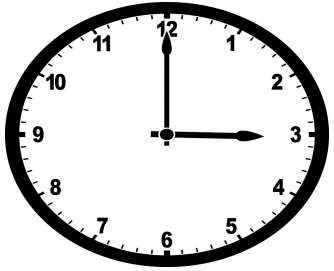
Fast 5

1. 23:59 = convert to 12 hour clock
2. 7:18am = convert to 24 hour clock
3. 60 minutes = ___hour
4. 520 seconds = __minutes
5. $4\frac{1}{2}$ hours = ___minutes

Fast 5

1. 23:59 = 11:59pm
2. 7:18am = 07:18
3. 60 minutes = 1hour
4. 520 seconds = 8 minutes 40 seconds
5. $4\frac{1}{2}$ hours = 270 minutes

Adding the time



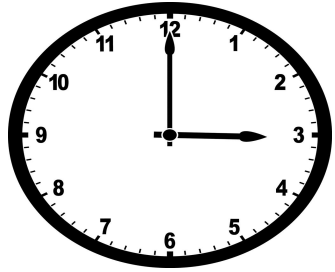
The time is 3:00pm

If a programme starts now and lasts 50 minutes.

What time will it finish?

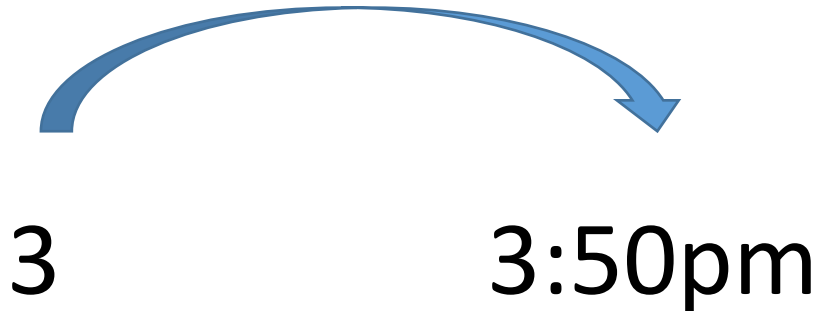
We don't use the column method because there are 60 minutes in an hour rather than 100 (this makes it very difficult to use).

We use a numberline to help instead.

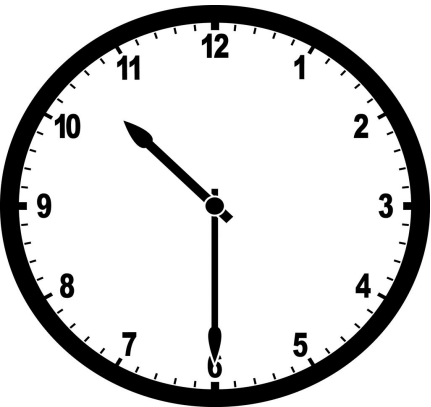


If a programme lasts 50 minutes what time will it finish?

+ 50 minutes



In this case we just have to add the minutes to the hour.
But is it always this simple?



The time is 10:30

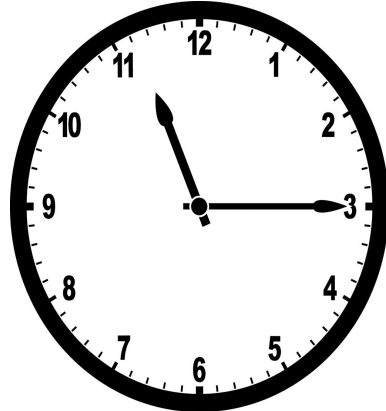
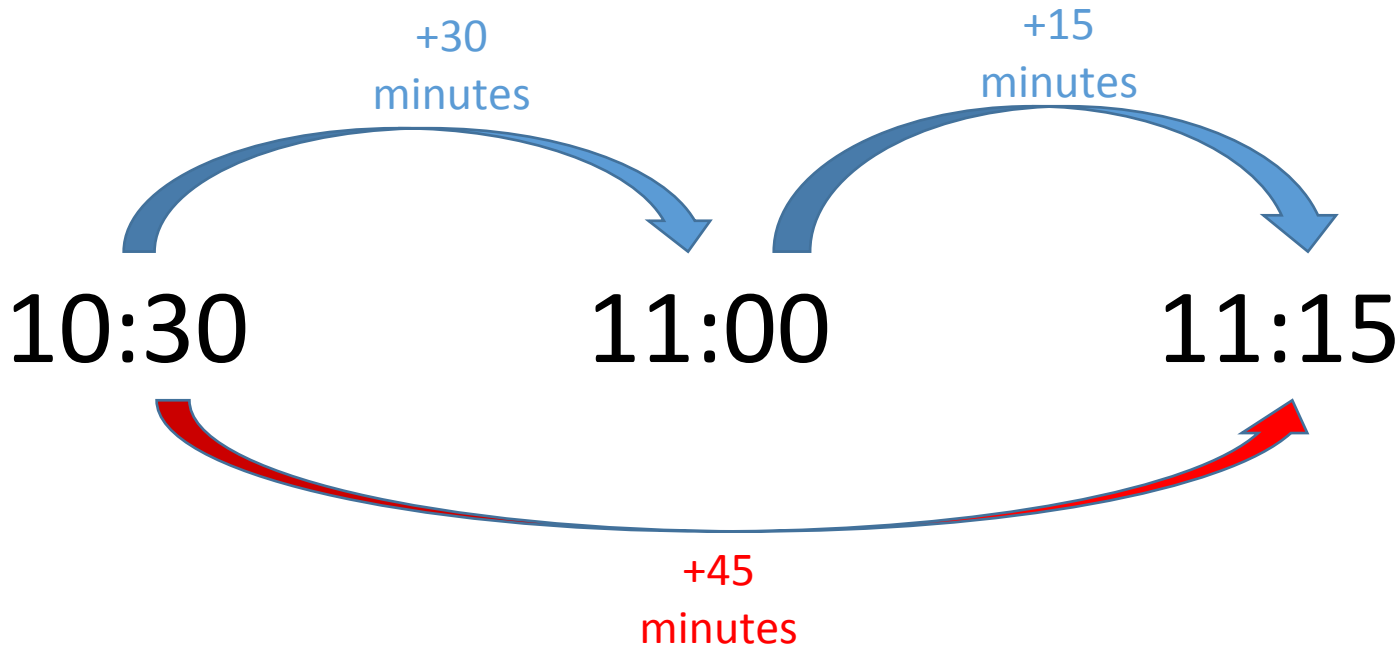
What time will it be in 45 minutes time?

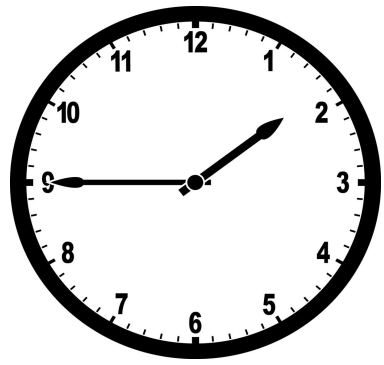
In this case, we will go into the next hour so we will break the 45 minutes down into easier amounts.

We break it down into 30 minutes and 15 minutes.

30 minutes takes the time to 11:00.

The remaining 15 minutes takes the time to 11:15





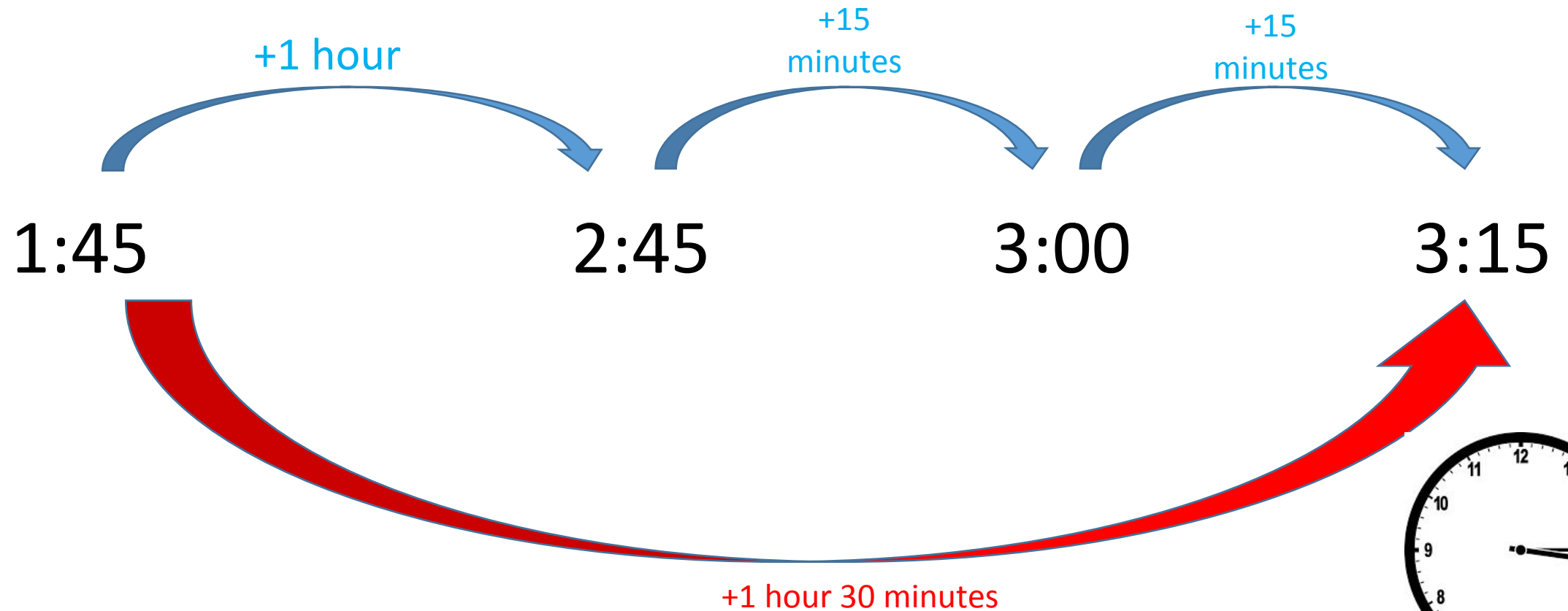
The time is 1:45pm

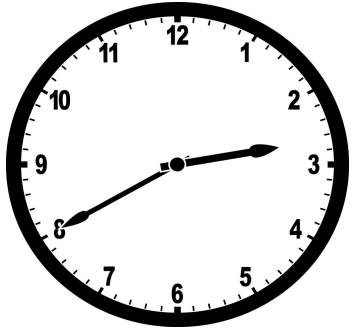
What time will it be in 1 hour 30 minutes?

We add on 1 hour to take the time to 2:45

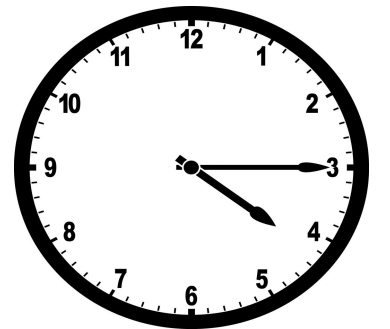
We add on 15 minutes to take it to 3:00

We then add the final 15 minutes to take it to 3:15pm

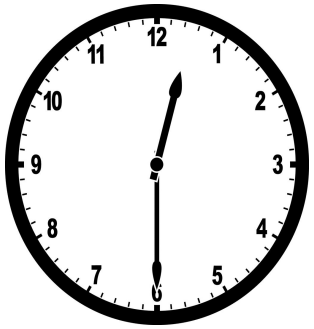




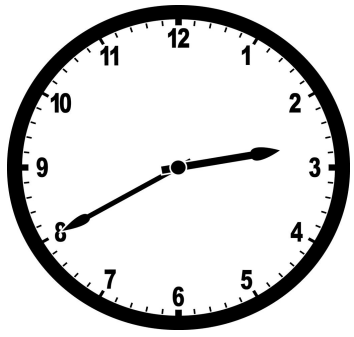
The time is 2:40pm
What time will it be in 95 minutes?



Have a go



The time is 12:30 what time will it be in 95 minutes?



The time is 12:30pm what time will it be in 95 minutes?

2:05pm

+1 hour / 60
minutes

+30
minutes

+5
minutes

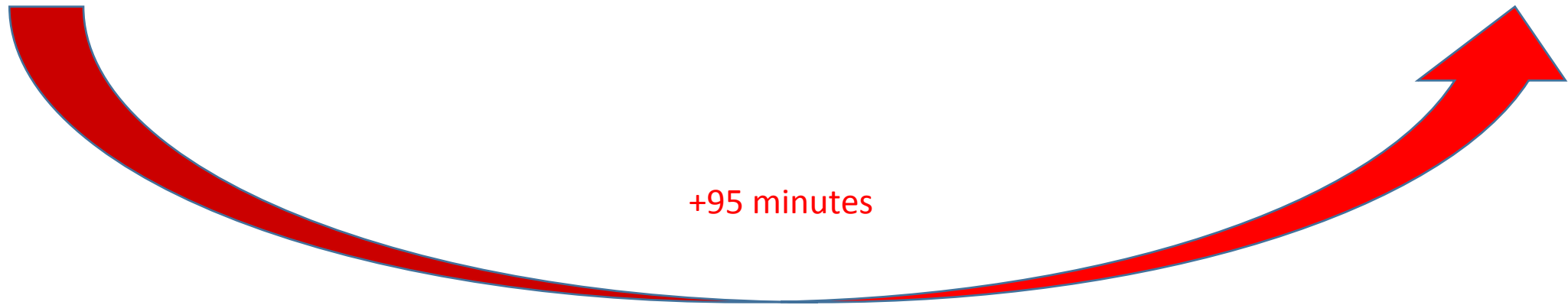
12:30

1:30

2:00

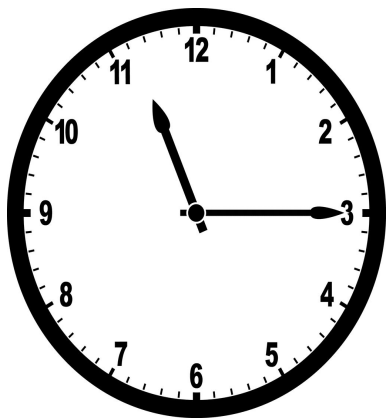
2:05pm

+95 minutes



Can I subtract time?

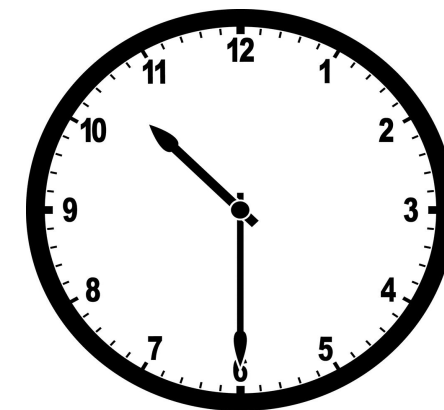
We use the same technique as adding but in reverse.

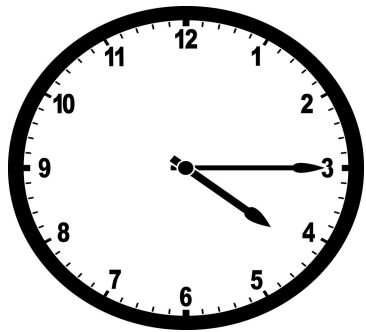


It is 11:15, what time was it 45 minutes ago?

Instead of adding we take away. **Remember there are 60 minutes in an hour.**

We break the 45 minutes down into more useful amounts.





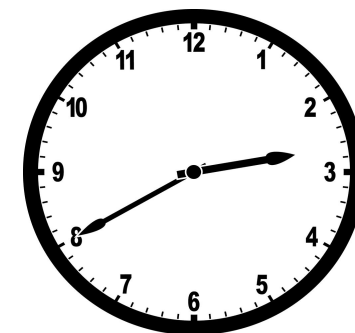
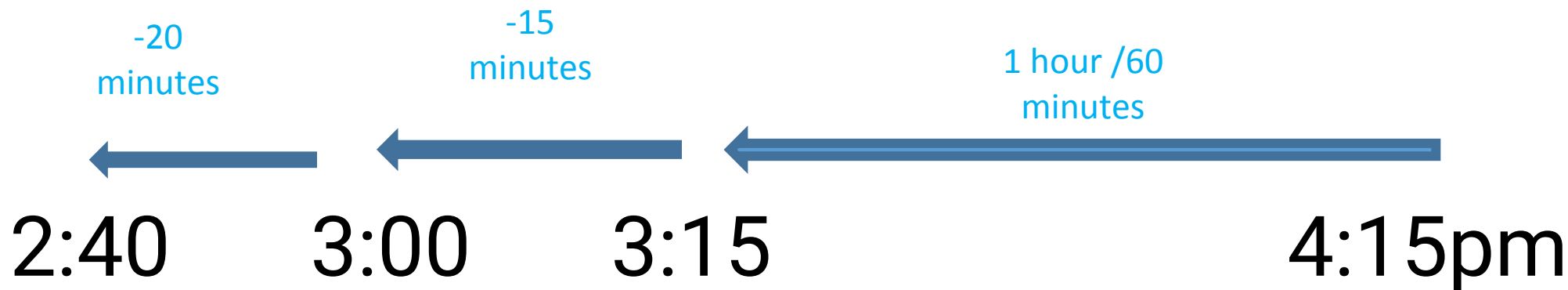
The time is 4:15pm, what time was it 95 minutes ago?

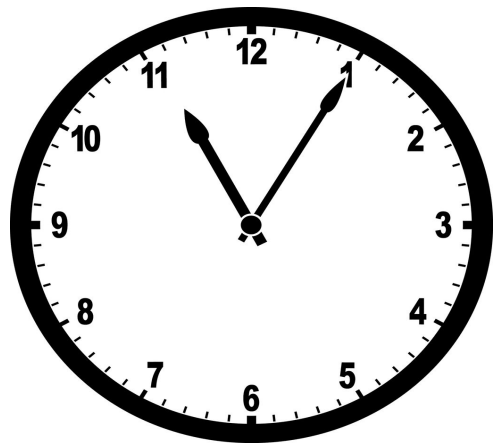
We start at 4:15.

One hour/60 minutes ago the time was 3:15.

We subtract 15 minutes to get to 3:00

We then subtract the final 20 minutes bringing it to 2:40pm.



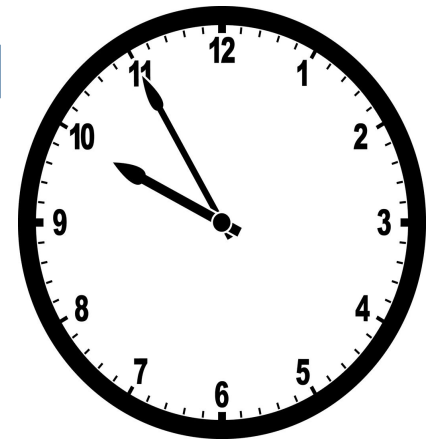


The time is 11:05. What time was it 70 minutes ago?

We start at 11:05 and subtract 60 minutes taking it to 10:05.

We then subtract 5 minutes bringing it to 10:00

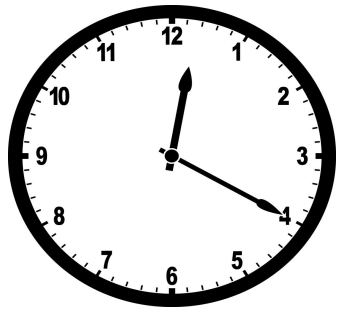
Lastly, we subtract the final 5 minutes making it **09:55**



Have a go at this

- If it is now 12:20, what time was it 70 minutes ago?





If it is now 12:20, what time was it 70 minutes ago?

