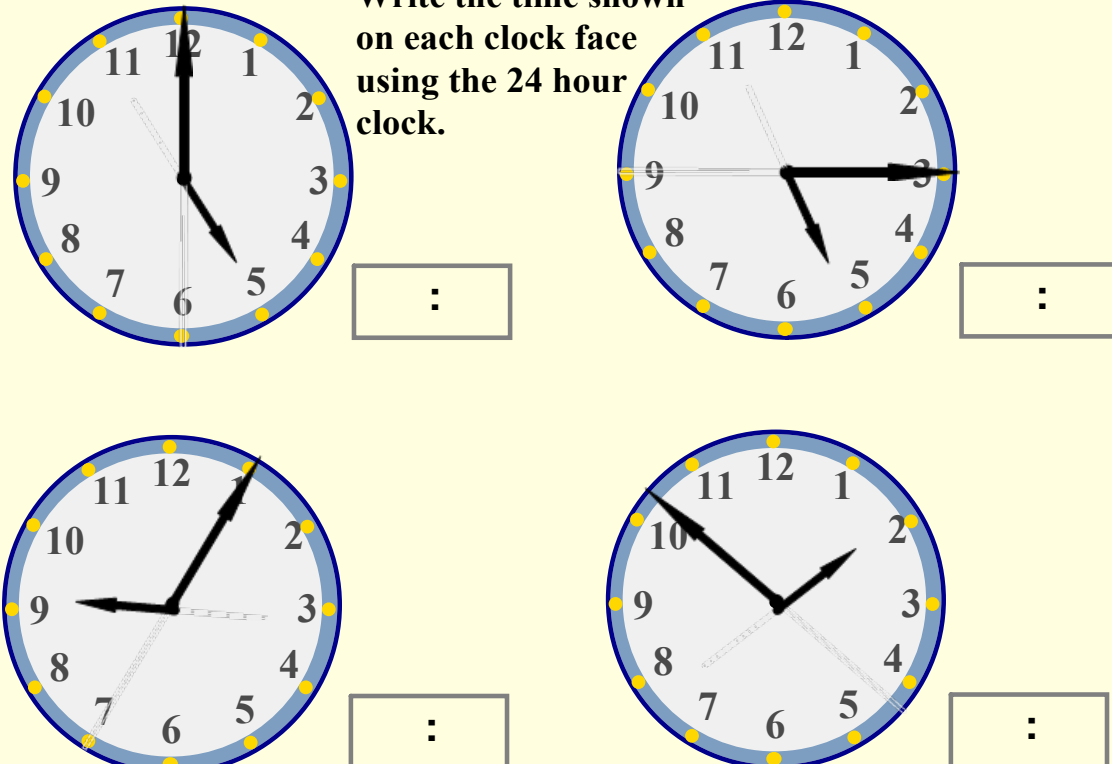
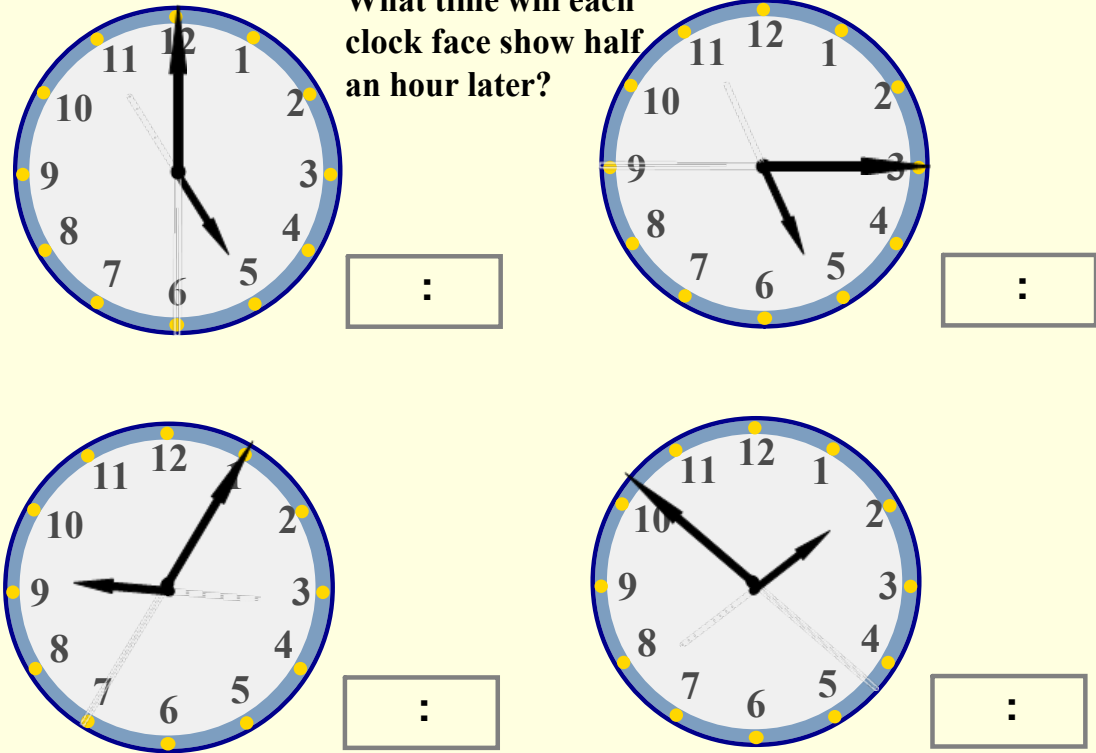


Write the time shown on each clock face using the 24 hour clock.



Four numbered clocks

What time will each clock face show half an hour later?



Four numbered clocks

What time did each clock face show 20 minutes earlier?

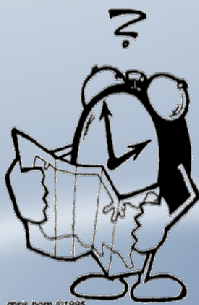
Four numbered clocks

Thursday

LO: To calculate differences in time using a number line.

MUST: Use timetables. Read the time on a 24-hour digital clock and use 24-hour clock notation, such as 19:53.

SHOULD: Appreciate different times around the world. Solve problems and calculations in the context of time.





Your mission should you choose to accept it is to programme Ethan Hunt's watch with the world times.



 arnis nam ©1995

Nov 8-18:18



Nov 8-18:50

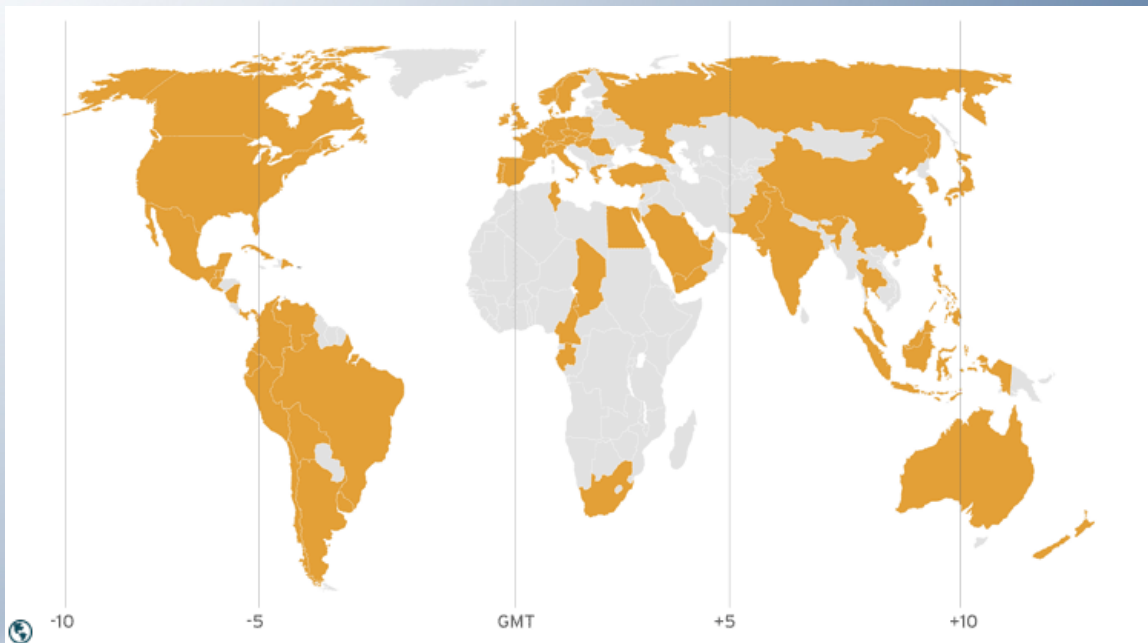
<https://www.bbc.co.uk/programmes/p04szlrz>

<https://www.youtube.com/watch?v=X1DkiuaFCuA>



Nov 8-18:26

The globe is split up into time-zones. These zones run vertically from north to south. Times are calculated based on Greenwich Mean Time.



Nov 8-18:26

World Times	
Country	+ GMT or -GMT?
France	+1
Cyprus	+2
India	+5 $\frac{1}{2}$
China/Hong Kong	+8
Brazil	-4
Greece	+2
USA (Eastern)	-5
New Zealand	+12
Australia/Sydney	+10
Spain	0
Japan	+9
Mexico	-5

all times in 24-hour clock

London:
7:15
13:57
19:30

What (local) time is it in ...

Nov 8-18:26

STANDARD TIME ZONES
Corrected to January 2001
Zone boundaries are approximate
Daylight Saving Time (*Summer Time*), usually one hour in advance of Standard Time, is kept in some places
Map outline © Mountain High Maps
Compiled by HM Nautical Almanac Office

Standard Time = Universal Time + value from table

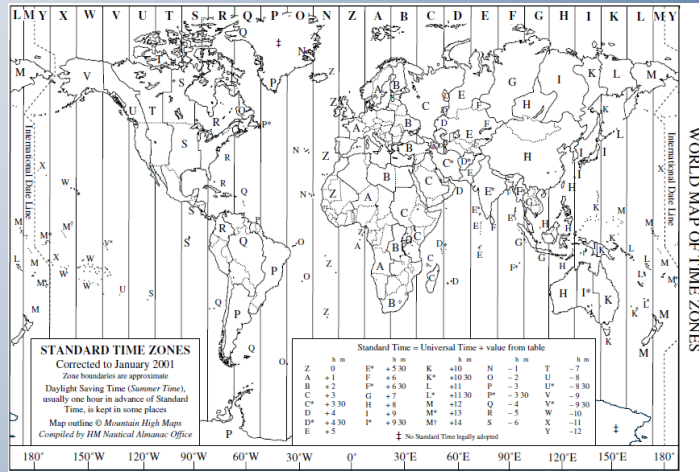
Z	0	E*	+5 30	K	-10	N	-1	T	-7
A	+1	F*	+6	L*	+10 30	O	-2	U	-8
B	+2	P*	+6 30	M	+11	P	-3	U*	-8 30
C	+3	G	+7	L*	+11 30	P*	-3 30	V	-9
C*	+3 30	H	+8	M	+12	Q	-4	V*	-9 30
D	+4	I	+9	M*	+13	R	-5	W	-10
D*	+4 30	I*	+9 30	M†	+14	S	-6	X	-11
E	+5							Y	-12

† No Standard Time legally adopted

Nov 8-18:26

Using this map, calculate the local times at the given destinations.

Do at least the first part.



Nov 8-18:26

end of Thursday's learning

Nov 8-18:26

Friday

Nov 8-18:26

Today you are going to try and apply your knowledge to flight times and arrival times (local time).



Nov 20-20:51



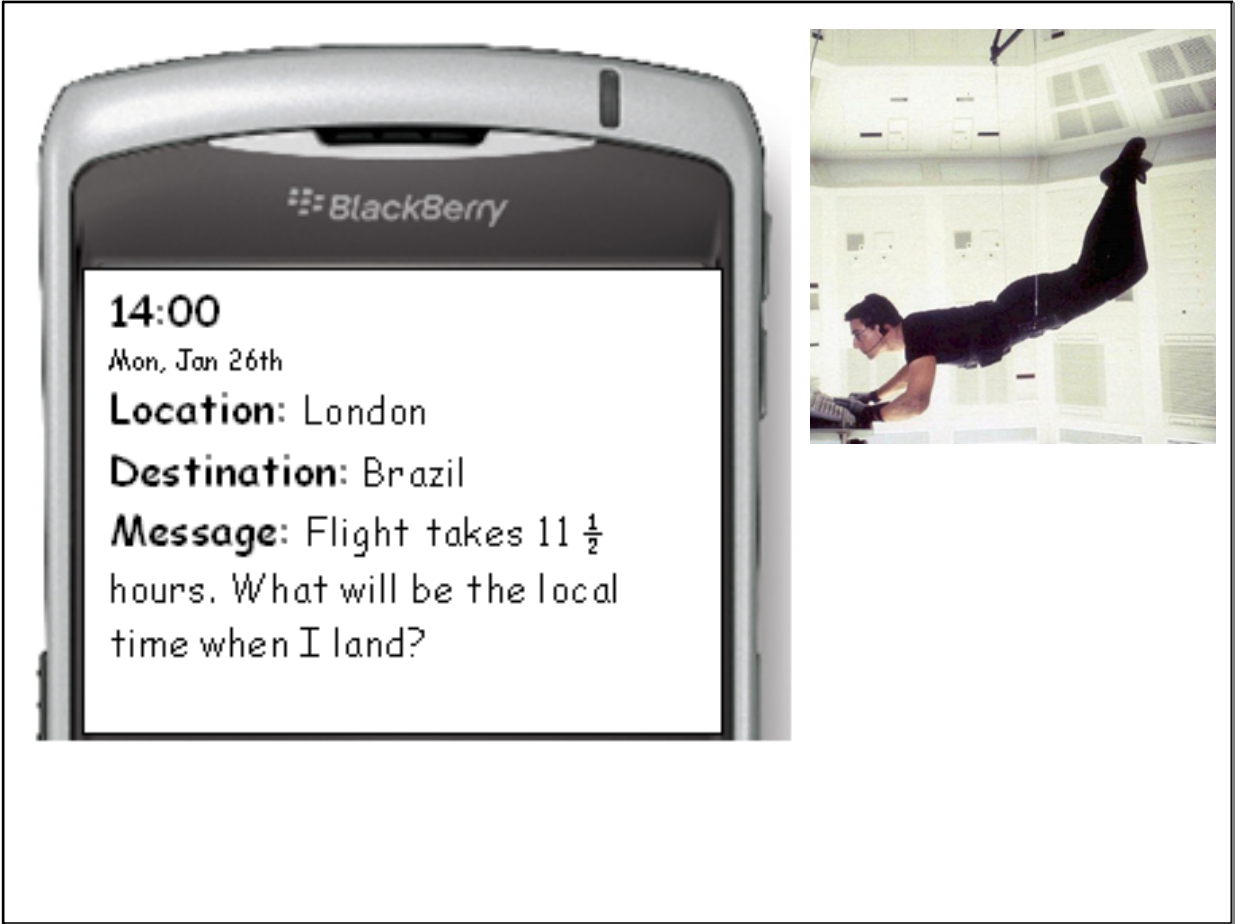
Nov 20-20:53

Welcome to Gatwick Airport

FLIGHT NO.	TO	CHECK-IN	BOARDING	DEPART	FLIGHT-TIME	ESTIMATED ARRIVAL	LOCAL TIME ON ARRIVAL
BA12456	NEW YORK	10:20	12:00	12:20	9 HRS	21:20	16:20
VA4532G	SAO PAULO			13:30	8 HRS	21:30	
AI564F	DELHI	12:15			9 HRS		
CA987G	BEIJING			16:10	11 HRS		
VJ43AS	MOSCOW		17:05		4 HRS 30 MINS		
QA6754	AUCKLAND			19:30	13 HRS		
J5427T	TOKYO			22:00	11 HRS 10 MINS		
AA742	LOS ANGELES	22:00			11 HRS 15 MINS		



Nov 20-20:32



Jan 22-22:12

14:00 + 11 hours 30 min but then Brazil is three hours behind London time

1. Add on your 11 hours and 30 min
2. Adjust the time difference.

You can, of course, adjust the time difference first and then calculate the arrival time.

The diagram shows a horizontal timeline with three points: 14:00, 22:30, and 01:30. A black curved arrow starts at 14:00 and ends at 22:30, labeled "+ 11 hours 30 min". A red curved arrow starts at 22:30 and ends at 01:30, labeled "- 3 hours".

14:00 + 10 hours gets you to 24:00 = 00:00, i.e. midnight; then you have 1 hour 30 min left over

Jan 23-08:34

You have a choice of worksheets to show your understanding of time zone.

I would like you to use a time line to show your working.

choice of worksheet: Friday world time problems easier
Friday world time problems harder

Jan 23-08:34

Final challenge:

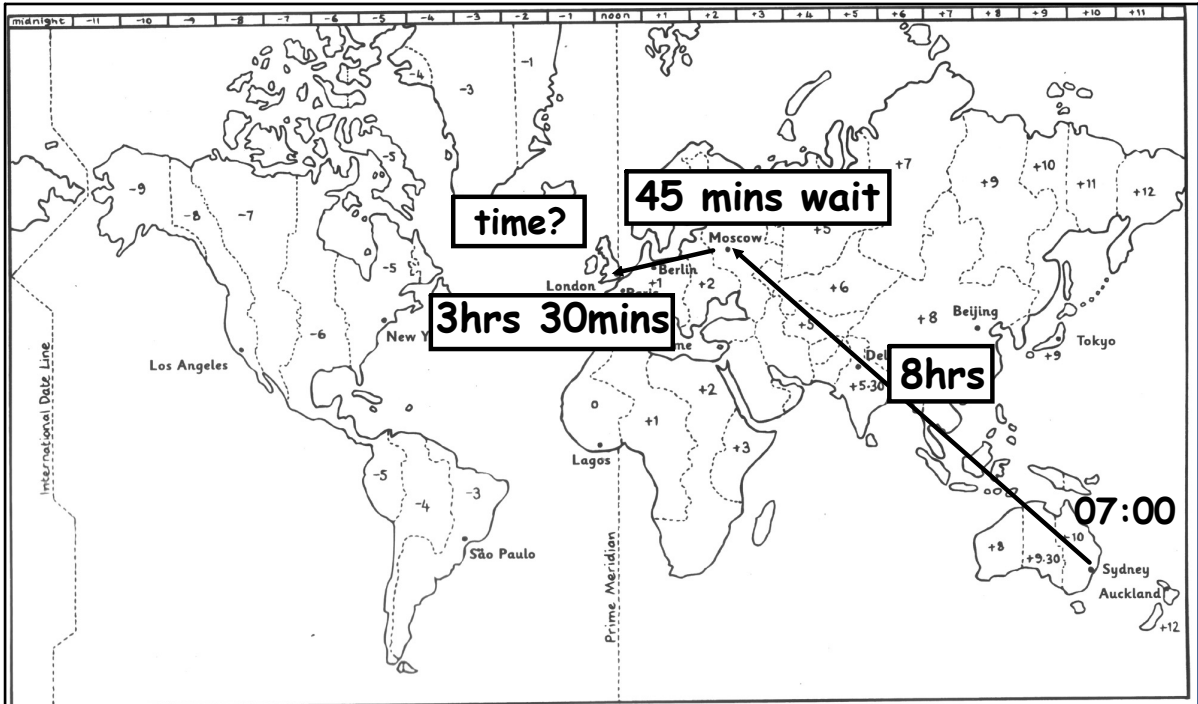
Ethan Hunt is on a mission. Can you work out what the local time is when his plane arrives at its destination?

His plane departs Sydney at 07:00. It travels for 8 hours and lands in Moscow for refuelling. Refuelling takes 45 mins.

Following refuelling, the plane takes off and flies towards London. This journey takes 3 hours 30 mins.

**What time does Ethan Hunt arrive in London?
Remember that Sydney is 10 hours ahead of London.**

Nov 29-17:18



Start time: 07:00
 Total Journey Time = 8hrs + 45mins + 3hrs + 30mins = 12hrs 15mins
 Landing time: 19:15
 Local time: 19:15 - 10 hrs = 09:15

Nov 28-20:57

LI: To appreciate different times around the world.

How did you achieve today?

Are you on target?

MUST: Use timetables. Read the time on a 24-hour digital clock and use 24-hour clock notation, such as 19:53.

SHOULD: Appreciate different times around the world. Solve problems and calculations in the context of time.

Nov 8-18:18

Did you know.....?

The population of the UK is approximately 67 million.

The number of passengers a year travelling through Heathrow airport is.....

69 million! (69,000,000)

Nov 20-21:25