

**Alavi**

**21st Century Schools**

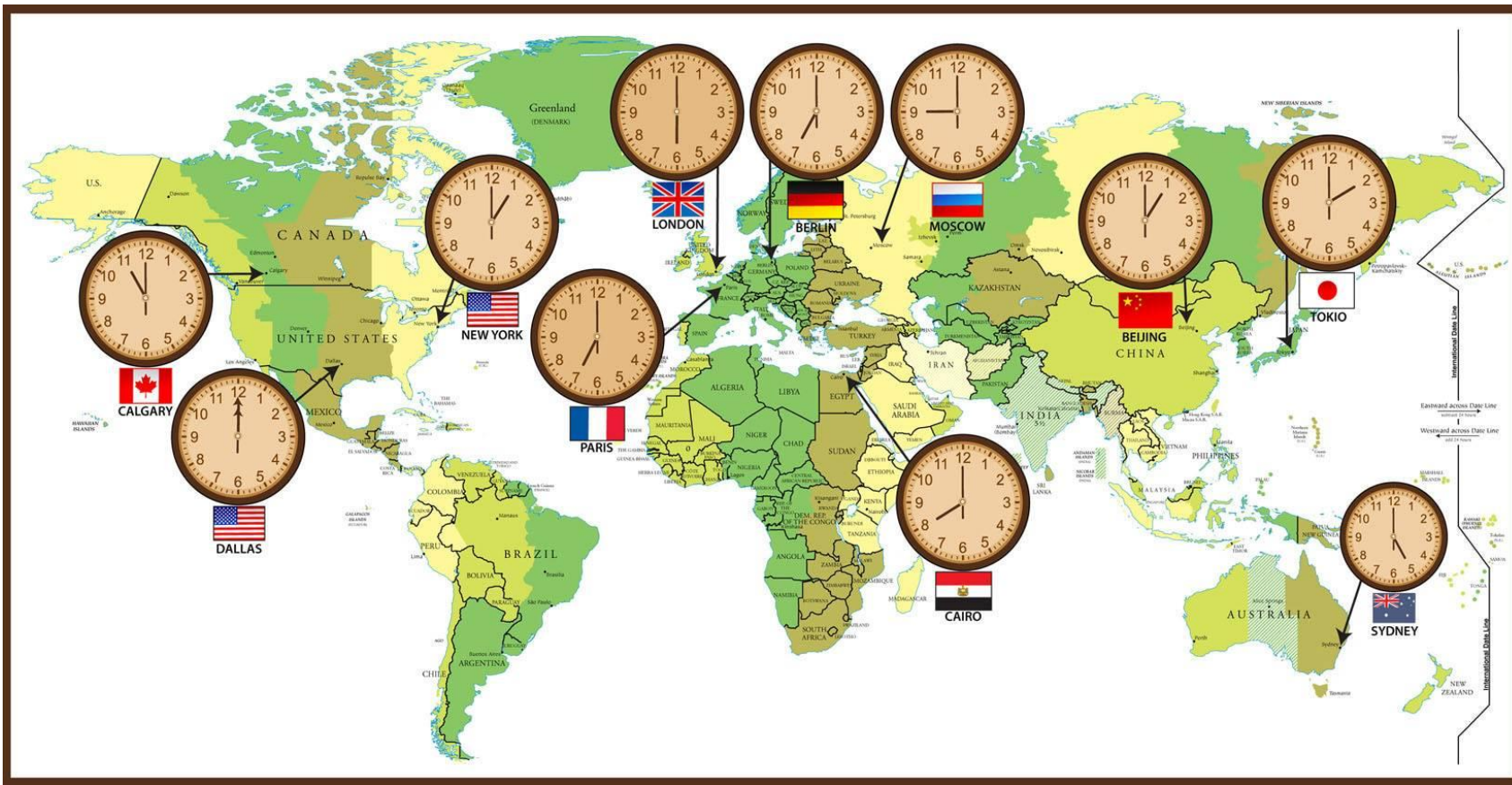


MATHEMATICS



A horizontal orange scroll graphic with a dark orange outline. The scroll is unrolled in the center, with the top and bottom edges curled up. The text "Session 13" is written in white on the unrolled portion.

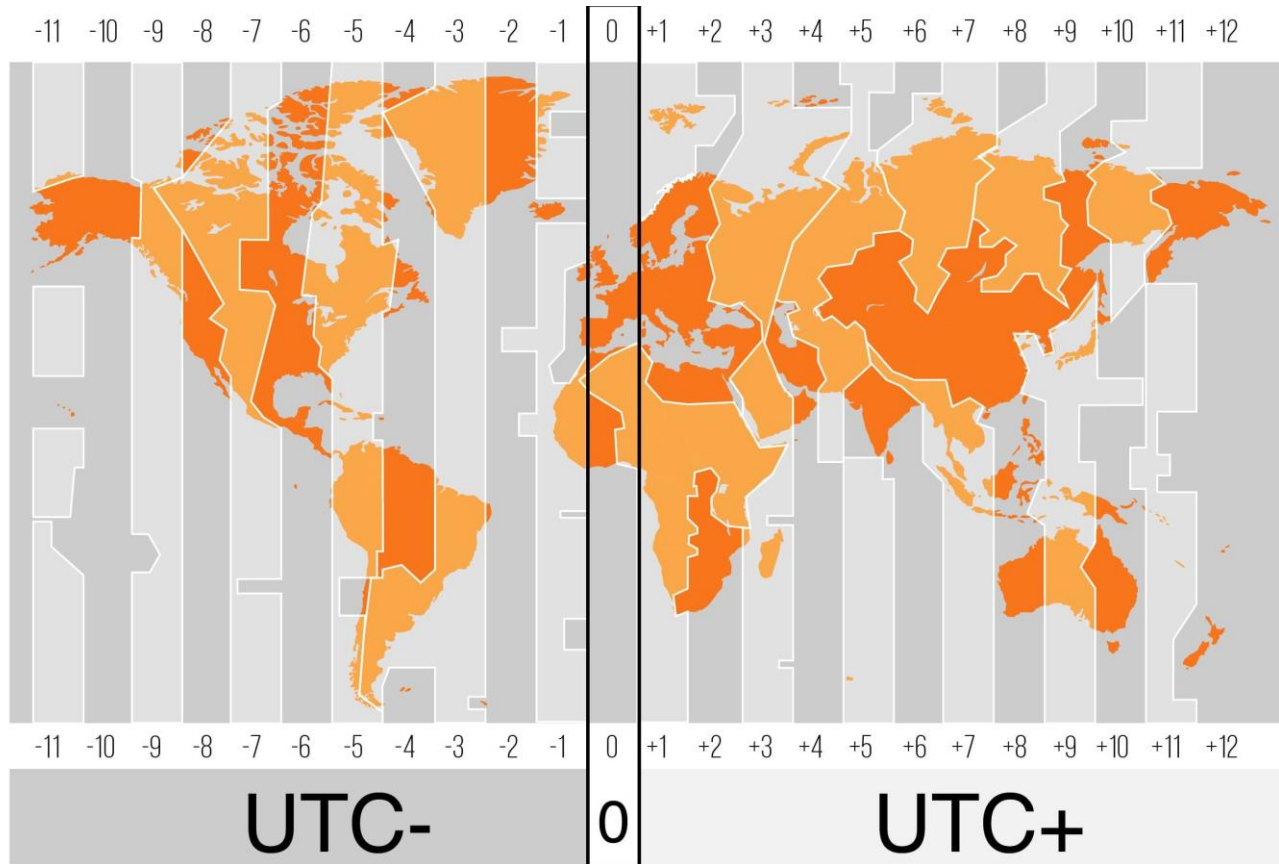
# Session 13



time zone: area of the world with a common time. There are 24 time zones.

# time zone

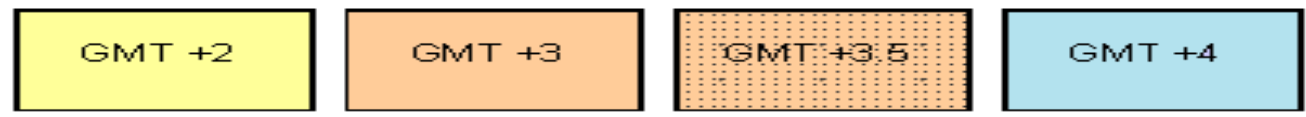




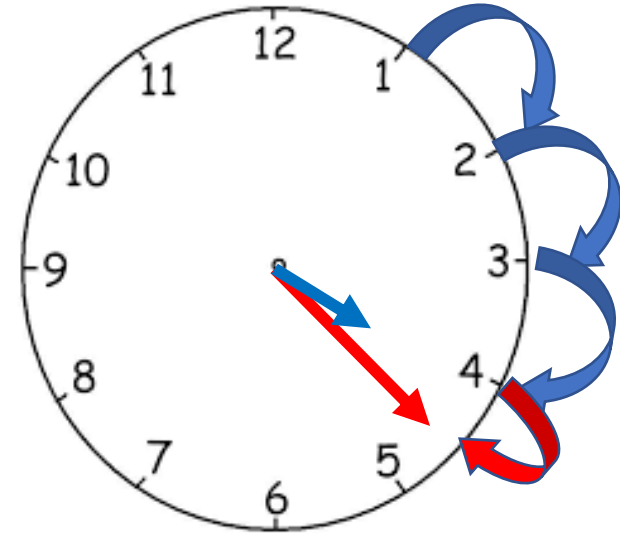
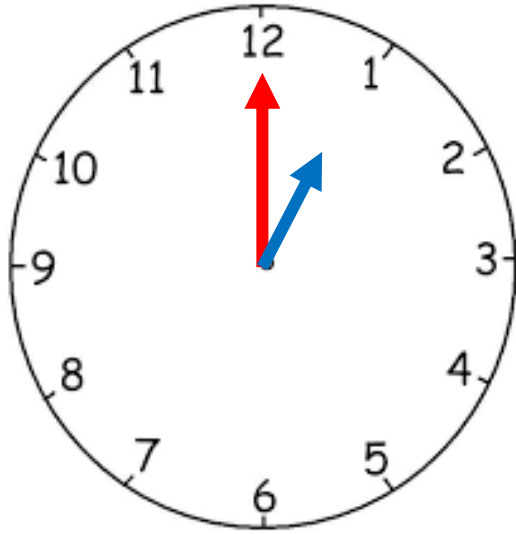
universal time: the time standard, originally measured at **Greenwich**, England, sometimes called Greenwich Mean Time (GMT).

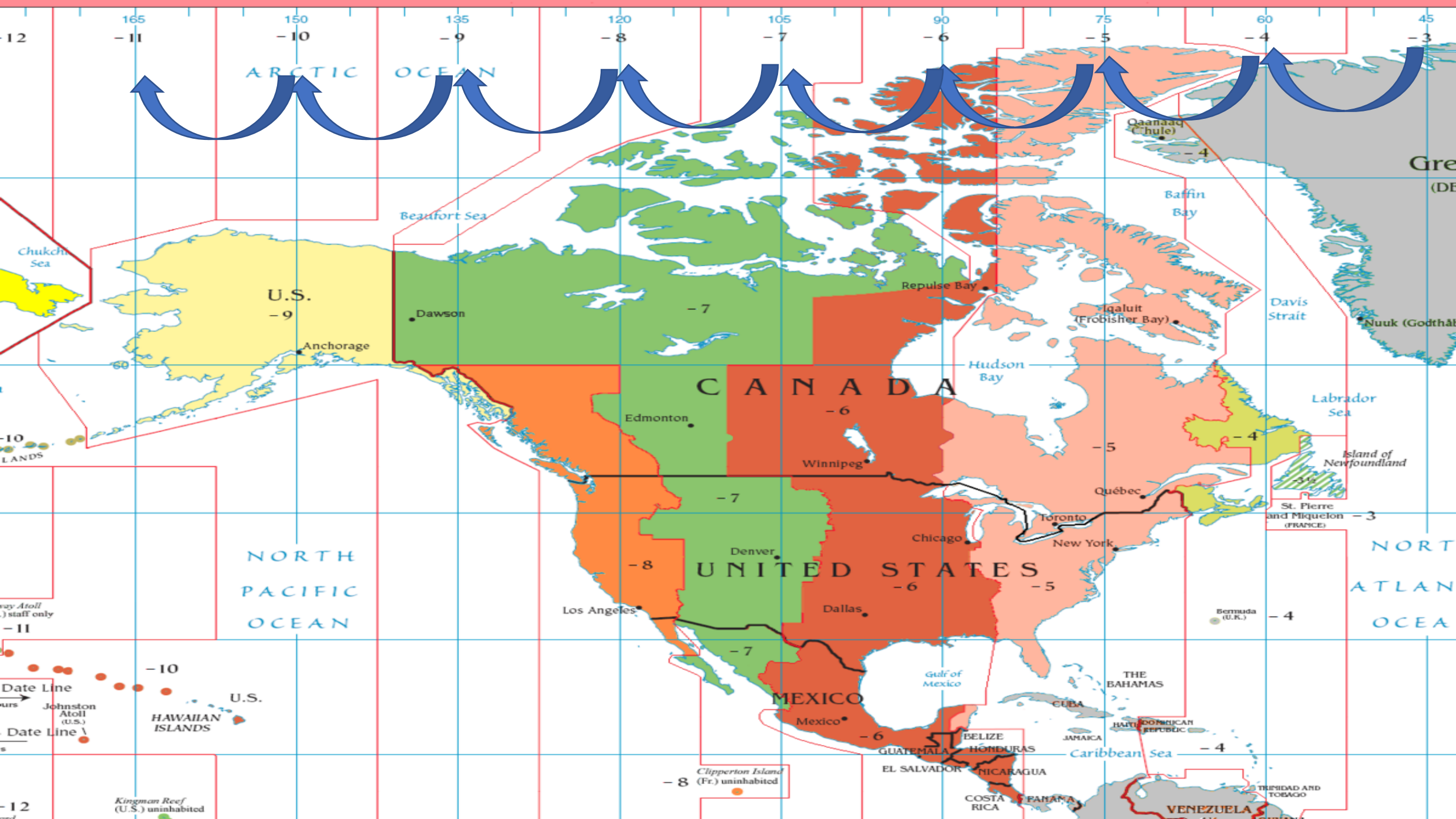
universal time

Iran is in **GMT + 3.30** time zone.

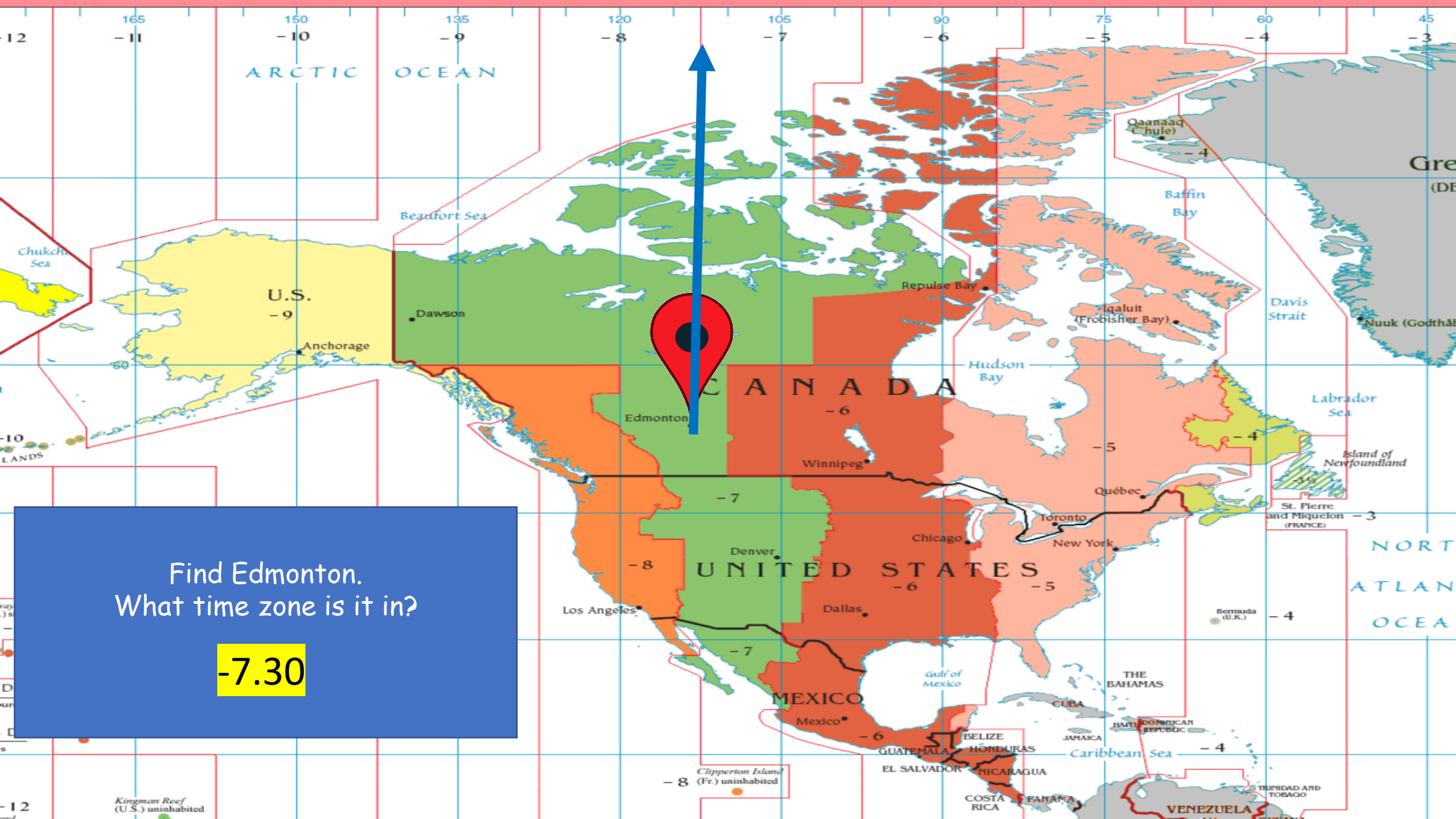


It means when it is 1 o'clock in Greenwich, it is 4.30 in Iran.  
So in Iran, the time is 3 hours 30 minutes **ahead** of GMT.









Find Edmonton.  
What time zone is it in?

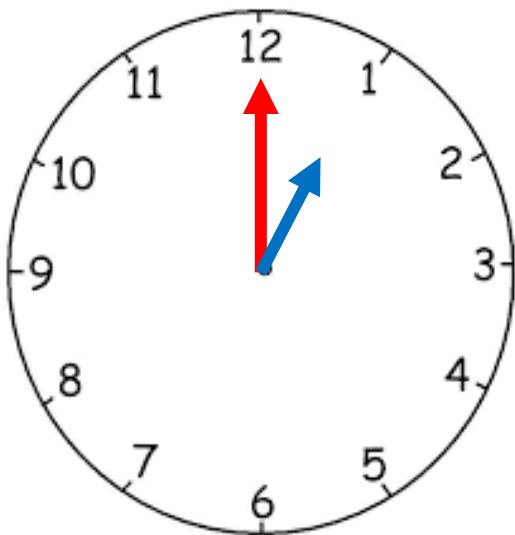
**-7.30**

Edmonton is in -7.30 time zone.

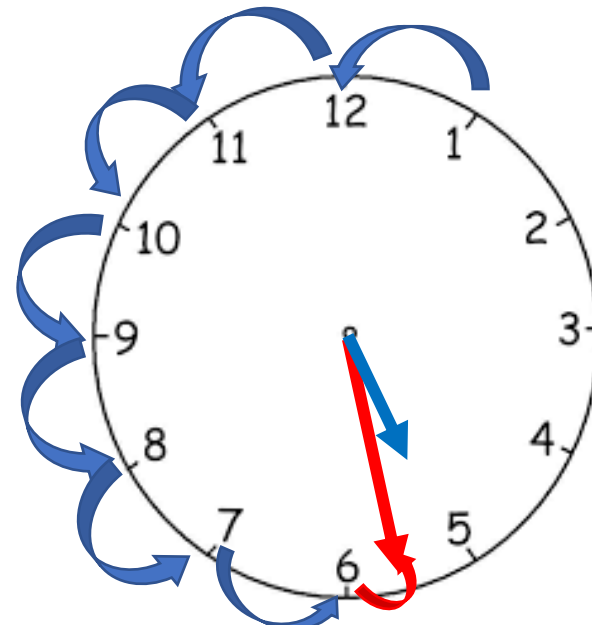
It means (GMT - 7 hours 30 minutes).

In Edmonton, the time is 7 hours 30 minutes **behind** the GMT.

When it is 1 in Greenwich, what time is it in Edmonton?



- 7 hours 30 min



Find New Your.  
What time zone is it in?

-5

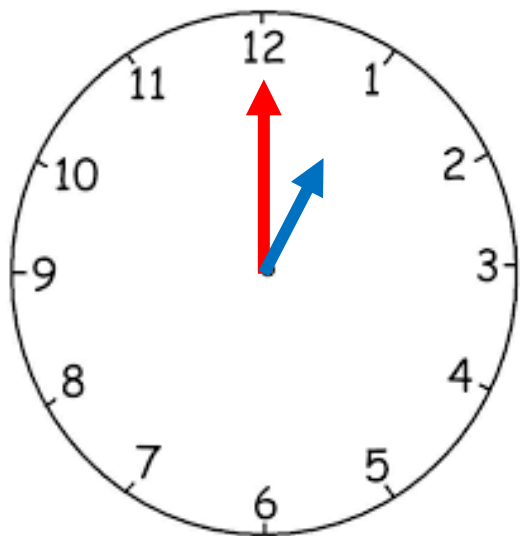


New York is in -5 time zone.

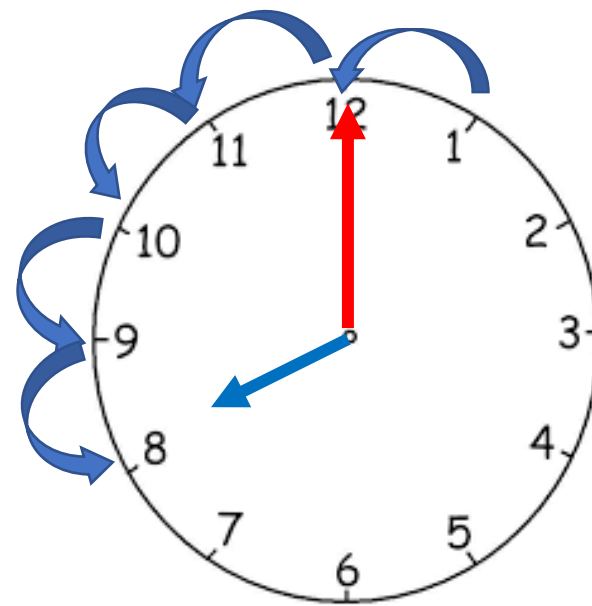
It means (GMT - 5 hours).

In New York, the time is 5 hours **behind** GMT.

When it is 1 in Greenwich, what time is it in New York?



- 5 hours





Beijing



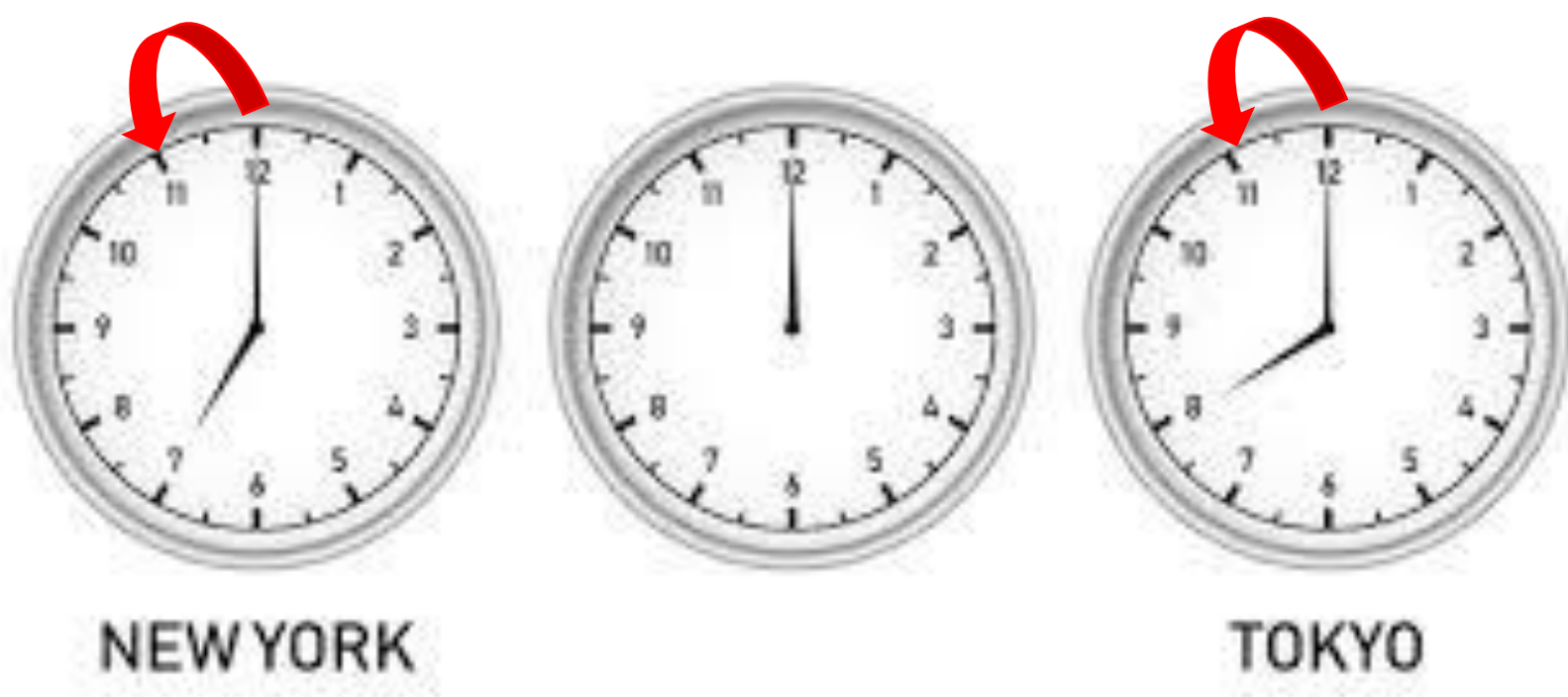
Mexico City



Vancouver

It's 00:00 (midnight) in Greenwich.  
How many hours are these cities **ahead**?





It's 00:00 (midnight) in Greenwich.  
How many hours are these cities **behind**?

How many hours are they

ahead

or

behind?



GMT



Paris +



Berlin +



Moscow



Beijing -



Sydney -



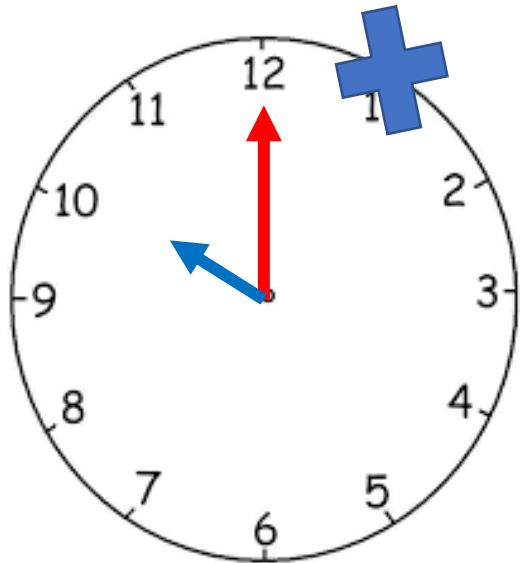
Los Angeles -

Marco lives in New York.

Jack lives in Morocco.

Morocco is 3 ahead of New York.

When Marco sleeps at 10 p.m. in New York,  
What time is it in Morocco?



$$10 + 3 = 1 \text{ a.m.}$$