

Class: _____ Week: _____ Name: _____

What Time Is It There?

What is a time zone?

The world is big! When it is **morning in Taiwan**, it is **night in the USA**.

That's because the sun shines on different parts of the world at different times.

To help people keep track of time, the world is divided into **time zones**.

What is UTC?

UTC means **Universal Time**. We use it to help compare times around the world.

Here are some examples:

- **New York** is in **UTC-5**
- **London** is in **UTC+0**
- **Paris** is in **UTC+1**
- **Taiwan** is in **UTC+8**
- **Tokyo** is in **UTC+9**

Easy Rule:

To change time between cities, you **add or subtract hours** using UTC.

Examples

Taiwan to London

Capo lives in **Taiwan (UTC+8)**. He calls his friend in **London (UTC+0)** at **10:00 AM in Taiwan**.

Q: What time is it in London?

Taiwan is 8 hours later (more) than London, so we **subtract 8 hours** from Taiwan's time.

10:00 AM - 8 hours = 2:00 AM in London

Answer: 2:00 AM in London

Paris to Taiwan

Burrito flies from **Paris (UTC+1)** to **Taiwan (UTC+8)**. His plane leaves Paris at **3:00 PM**.

Q: What time is it in Taiwan when he leaves?

Taiwan is 7 hours ahead, so we **add 7 hours**.

3:00 PM + 7 hours = 10:00 PM in Taiwan

Answer: 10:00 PM in Taiwan

Taiwan to New York

Capy is in **Taiwan (UTC+8)**, and Burrito is in **New York (UTC-5)**. New York is **13 hours behind** Taiwan. Capy calls Burrito at **9:00 AM in Taiwan**.

Q: What time is it in New York?

9:00 AM – 13 hours = 8:00 PM (the day before) in New York

Answer: 8:00 PM in New York (the day before!)

Quick Tips:

- From **UTC+ to UTC-**, add the time difference, then **go backward** in time.
- From **UTC- to UTC+**, add the difference and **go forward** in time.

Now You Try!

1. It's 12:00 PM in Taiwan (UTC+8). What time is it in Spain (UTC+1)?

Answer: _____

2. It's 9:00 AM in London (UTC+0). What time is it in Taiwan?

Answer: _____

3. Teacher James will fly from Taiwan on July 3 at 3:30 PM and arrive in Japan (UTC+9) on July 3 at 7:55 PM. How long is his flight?

Answer: _____

4. On July 10 at 4:25 PM, Teacher James will fly from Tokyo, Japan (UTC+9) to Mexico City, Mexico (UTC-6) for 12 hours and 50 minutes. When will he arrive in Mexico?

Answer: _____