

### 24 Hour Clock

The 24-hour clock is a way of telling the time in which the day runs **from midnight to midnight** and is divided into **24 hours**, numbered from **0 to 23**.

The 12 Hour Clock, or AM/PM, the day is split into the **12 Hours from Midnight to Noon** (the AM hours) and the other **12 Hours from Noon to Midnight** (the PM hours). See below for a side-by-side comparison of the 24 Hour Clock and the 12 Hour Clock.

24-hour clock	12-hour clock	24-hour clock	12-hour clock
00:00	12:00 midnight	13:00	1:00 p.m.
01:00	1:00 a.m.	14:00	2:00 p.m.
02:00	2:00 a.m.	15:00	3:00 p.m.
03:00	3:00 a.m.	16:00	4:00 p.m.
04:00	4:00 a.m.	17:00	5:00 p.m.
05:00	5:00 a.m.	18:00	6:00 p.m.
06:00	6:00 a.m.	19:00	7:00 p.m.
07:00	7:00 a.m.	20:00	8:00 p.m.
08:00	8:00 a.m.	21:00	9:00 p.m.
09:00	9:00 a.m.	22:00	10:00 p.m.
10:00	10:00 a.m.	23:00	11:00 p.m.
11:00	11:00 a.m.	24:00	12:00 midnight
12:00	12:00 noon		

#### Example 1

What is the equivalent of 10:00 a.m. on the 24-hour clock?

#### Explanation

In the 24 hour clock, AM. or morning time is the same as the 12 hour clock, with the **exception from 12 Midnight to 12:59 AM. which is 00:00 to 00:59 hours.**

Therefore, the answer is 10:00.

### Example 2

What is the equivalent of 5:00 p.m. on the 24-hour clock?

#### Explanation

Simply add 12 to given PM. or afternoon time, **except from 12:00 Noon to 12:59 PM.:**

$$5 + 12 = 17.$$

Therefore, the answer is 17:00.

### Example 3

What is the equivalent of 09:00 hour on the 12-hour clock?

#### Explanation

From 1:00 AM. to 12:00 noon, simply add the AM. designation. However from **00:00 to 00:59** hours, they convert to **12:00 Midnight to 12:59 AM.**

Therefore, the answer is 9:00 AM.

### Example 4

What is the equivalent of 22:00 hour on the 12-hour clock?

#### Explanation

Simply subtract 12 from the given hour if the hour falls between **13:00 to 24:00 hours.**

Therefore  $22 - 12 = 10$  PM. is the answer.