

Solutions

Award method and answer marks as indicated; accept equivalent correct methods.

2.1

- Add 12 to the p.m. hour: **16:35**. 00:20 is **12:20 a.m.**.

2.2

- $m = 2.5 \times 60 = \mathbf{150}$ min; $185 = 3(60) + 5$, so **3 min 5 s**.

2.3

- 09:48 to 11:48 is 2 h, then 29 min: **2 h 29 min**.

2.4

- $d_w = 3 \times 7 = \mathbf{21}$; $d_y = 2 \times 365 = \mathbf{730}$.

3.1

(a)

- Add 5 h to reach Saturday 02:50, then 25 min: **Saturday 03:15**.

(b)

- Subtract 3 h: **Saturday 00:15**.

(c)

- 00:15 to 01:10 is **55 minutes**.

3.2

(a)

- Total duration $t = 2 \text{ h } 50 + 20 \text{ min} + 1 \text{ h } 15 = \mathbf{4 \text{ h } 25}$.
- Arrival clock time **04:00**, on **Sunday**.

(b)

- Add one hour for the destination: **Sunday 05:00**.
- Wait $w = 06:30 - 05:00 = \mathbf{1 \text{ h } 30 \text{ min}}$.