

Common Time Conversions

Unit	Relationship
1 minute	60 seconds
1 hour	60 minutes
1 day	24 hours
1 week	7 days
1 year	12 months or 365 days (366 for leap year)
1 month	~30 or 31 days (February = 28/29 days)

Examples: Time Unit Conversion

Example 1:

Convert 3 hours into minutes.

Solution:

$$3 \text{ hours} \times 60 = \boxed{180 \text{ minutes}}$$

Example 2:

Convert 150 minutes into hours and minutes.

Solution:

$$150 \div 60 = 2$$
 hours and 30 minutes

$$2 \text{ h } 30 \text{ min}$$

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Example 3:

How many seconds in 2.5 minutes?

Solution:

$$2.5 \times 60 = \boxed{150 \text{ seconds}}$$



(P) 2. 12-Hour and 24-Hour Clocks

- (I) 12-Hour Clock (AM/PM Format)
- AM = Morning (Midnight to 11:59 AM)
- PM = Afternoon and evening (12:00 PM to 11:59 PM)

🔯 24-Hour Clock

- No AM/PM
- Hours go from 00:00 to 23:59
 - 1 AM = 01:00
 - 12 PM (noon) = 12:00
 - 1 PM = 13:00
 - 11 PM = 23:00
 - Midnight = 00:00

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Conversion Examples

Example 1:

Convert 3:15 PM to 24-hour time.

Solution:

3 PM = 15:00 →

15:15

Example 4:

How many days are in 5 weeks and 3 days?

Solution:

$$5 \times 7 = 35 \text{ days}$$
$$35 + 3 = \boxed{38 \text{ days}}$$

Example 2:

Convert 07:45 (24-hour) to 12-hour time.

Solution:

07:45 = 7:45 AM

7:45AM

Example 3:

Convert 00:30 to 12-hour time.

Solution:

00:30 = 12:30 AM

12:30AM



3. Reading Clocks and Timetables

(Reading Analog Clocks

- Short hand = hours
- Long hand = minutes
- Each number on the clock represents 5 minutes.

🏹 Example:

If the short hand is on 4 and the long hand is on 6:

- \rightarrow 6 × 5 = 30 minutes
- → Time is 4:30



Reading Timetables

Sample Train Timetable:

Station	Arrival	Departure
A	_	07:15
В	07:45	07:50
С	08:20	_

Example 1:

How long does it take from Station A to B?

Solution:

07:45 - 07:15 = 30 minutes

30 minutes

Example 2:

What is the total journey time from A to C?

Solution:

08:20 - 07:15 = 1 hour 5 minutes

1 h 5 min

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