



# Unit 13

## Strengthen activities

**MISCONCEPTION:** Children may misunderstand the relationship between a digital clock face and an analogue clock face. For example, they may represent the digital time 6:10 as one hand pointing to the 6 and the other pointing to the 10.

### Answers

20 to 4 in the afternoon can be shown as 3:40 on an analogue clock and 15:40 on a digital clock.

28 minutes past 2 in the morning can be shown as 2:28 on an analogue clock and 02:28 on a digital clock.

**MISCONCEPTION:** Children may lack knowledge of units of time e.g. 1 week = 7 days; 1 day = 24 hours, etc.

### Answers

There are 120 minutes in 2 hours, there is 1 minute, 40 seconds in 100 seconds.

**MISCONCEPTION:** Children may use am and pm incorrectly in the 12-hour clock and/or include it in the 24-hour clock.

### Answers

a) 1:05 pm, 13:05 b) 7:00 am, 07:00, c) 11:41 am, 11:41  
d) 8:28 pm, 20:28 e) 12:02 am, 00:02

## Deepen activities

### Answers

#### Activity 1

True. 480 seconds = 8 minutes. 8 minutes after 3 minutes to twelve is 12:05

9 minutes before 12:14 is also 12:05.

Children could prove drawing clocks or showing the calculations.

#### Activity 2

Answers will vary. Ensure that the times, written in the different formats, correspond with each other and that am/pm have been used accurately with 12-hour clock times.

#### Activity 3

Answers will vary. Ensure that children's questions make sense, involve conversion from minutes to hours and give an answer of 1 hour and 48 minutes.