**Measures and Data Unit 1**

**Problem solving and reasoning questions**

Write the times for breakfast, lunch and tea on a Saturday in digital and analogue format. Make sure you use am and pm correctly.

How long to the next hour from:

1. 4:54
2. quarter to 12
3. twenty past 9

Complete each sentence

4:35 + mins = 5:05

11:30 – mins = 10:40

6:14 + mins = 7:00

8:45 + 18 mins =

How long was each film?

1. started at 6:15pm and ended at 7:05pm
2. started at 11:20am and ended at 1:15pm
3. started at 9:00pm and ended at ten to eleven. Use Frog to help you calculate these.

**Measures and Data Unit 1**

**Problem solving and reasoning: Answers**

Write the times for breakfast, lunch and tea on a Saturday in digital and analogue format. Make sure you use am and pm correctly. Answers will vary but check they are coherent and that the analogue and digital times are equivalent. e.g.

Breakfast – half past 8 or 8:30 am.

Lunch – one o’clock or 1:00 pm.

Tea – six o’clock or 6:00 pm.

How long to the next hour from:

1. 4:54 6 minutes.
2. quarter to 12 15 minutes.
3. twenty past 9 40 minutes.

Children’s errors here, and in the next sections, may be due to assuming that there are 100 minutes in an hour. Practise number bonds to 60 and keep reiterating the uniqueness of the units of time.

Complete each sentence

4:35 + 30 mins = 5:05

11:30 – 50 mins = 10:40

6:14 + 46 mins = 7:00

8:45 + 18 mins = 9:03

How long was each film?

1. started at 6:15pm and ended at 7:05pm 50 minutes.
2. started at 11:20am and ended at 1:15pm 1 hour 55 minutes.
3. started at 9:00pm and ended at ten to eleven 1 hour 50 minutes.

Use Frog to help you calculate these. When using Frog, children should start with the initial time and use whole hours as stopping points for Frog, combining the jumps to find the answer.