



# Unit 14

## Strengthen activities

**MISCONCEPTION:** When estimating items, children may think that physically bigger items always have a larger mass than smaller items.

### Answers

Children accurately estimate the mass of a range of items.

**MISCONCEPTION:** Children may not appreciate how warm or cold temperatures are. For example, they may estimate that the temperature outside is 70°C.

### Answers

Practice Book p116

Beach = 30°C Pan = 90°C Fridge = 4°C Outside = 10°C

**MISCONCEPTION:** When calculating using measures, children may identify the incorrect operation.

### Answers

1.  $40 \text{ ml} + 30 \text{ ml} = 70 \text{ ml}$

3.  $90 \text{ ml} - 40 \text{ ml} = 50 \text{ ml}$

Textbook p160

$40 \text{ ml} + 50 \text{ ml} = 90 \text{ ml}$

## Deepen activities

### Answers

#### Activity 1

Answers will vary, but may include:

- 4 l: Fill the 7 l bucket and then fill the 3 l jug from this, leaving 4 l in the 7 l bucket.
- 1 l: Fill the 3 l jug and then fill the 2 l bottle from this, leaving 1 l in the 3 l jug.
- 5 l: Fill the 2 l bottle and the 3 l jug and pour them both into the 7 l bucket.
- 10 l: Fill both the 7 l bucket and the 3 l jug.
- 8 l: Fill the 7 l bucket and then fill the 3 l jug. Fill the 2 l bottle from the 3 l jug, leaving 1 l in the 3 l jug, and 7 l in the 7 l bucket.

#### Activity 2

Answers will vary. Check that the items could reasonably be estimated to fit the criteria's given.

#### Activity 3

Snow, fridge, jug of cold water, classroom, the water in an indoor swimming pool, the water in a bath, boiling water, a fire.

(Outside today will vary depending on the actual temperature outside.)