



## Unit 11

### Strengthen activities

**MISCONCEPTION:** Children may confuse the place value and size of a number. They may, for example, see 2 ones and 7 hundredths as 2.7, missing that the value of the tenth is 0.

#### Answers

- 1.02
- The one has a value of 1 one, the 2 has a value of 2 hundredths, there is no tenth.

In 3.04 there are no tenths and 4 hundredths.

**MISCONCEPTION:** When comparing decimals, children may not start by looking at the largest place value and then the next largest place value and so on.

#### Answers

3.68, 3.86, 4.2

**MISCONCEPTION:** Children may not understand that within a number with one decimal place, the tenths digit determines what whole number the number will round to.

#### Answers

1.9 rounds to 2 and 2.2 rounds to 2 when rounding to the nearest whole number.

### Deepen activities

#### Answers

##### Activity 1

4.23 could be represented in many ways including: four point two three; 4 ones, 2 tenths and 3 hundredths;  $4 + \frac{2}{10} + \frac{3}{100}$ ; 4 ones and 23 hundredths; 423 hundredths; 42 tenths and 3 hundredths;  $\frac{423}{100}$ . Similar answers for children's own choices.

##### Activity 2

There are many different ways to partition 5.76 including:  $5 + 0.7 + 0.06$ ;  $4 + 1.5 + 0.26$ ;  $3 + 2.76$

Ensure that each equation totals 5.76

The shortest partition could be a calculation that only has two parts e.g.  $5 + 0.76$

The partition with the most parts would have 576 parts, that would be:  $0.01 + 0.01 + 0.01 + \dots$

##### Activity 3

Any number between 0.95 and 1.04 (inclusive)

The smallest possible number = 0.95

The largest possible number = 1.04