# Learner's Book answers

# Unit 1 The number system

### Getting started

- 9 ones
- 9 hundredths
- 9 tenths
- a two hundred and five thousand, four hundred and eight
  - point nine b five hundred and
- seventy thousand and thirty six point zero one
- 0.1
- 10
- 6m
  - 12 m

570 036 01

205408.9

- 5.55
- 37cm
  - 11 cm
- 99.5 10.4

### Exercise 1.1

- 7 hundred 7 thousandths
  - 7 tenths
- 7 hundredths

2.139

- 2.046
- 3 Odd one out is 12.34. All the others are equivalent to 1.234.
- two point one
  - three nine -909.909
  - negative nine hundred and nine point nine zero nine
  - twenty-five point 25.431 four three one
  - negative three point -3.481 four eight one
- $0.8 \text{ or } \frac{8}{10} \text{ and } 0.004 \text{ or } \frac{4}{1000}$
- a 0.14
- 0.019

- 7200
- 85
- 42.8

- 6.7
- 0.151
- 0.55

- a C
- D
- E

9 5

## Exercise 1.2

- 4 3
- \$15
- 4.5 5.05 4.55 5.35
- 4.5 7.8 2.4 9.1
- 7.51 7.49 7.53
- A False, 3.04 is 3.0 when rounded to the nearest tenth.
  - True
  - False, 6.95 is 7.0 when rounded to the nearest tenth.
- 55.6 litres 12.2 metres 35.5 kilograms
- 0.5 8
- 7.97 is 8 when rounded to the nearest whole number.

7.97 is 8.0 when rounded to the nearest tenth. The 7 in the hundredths place increases the tenths by one so 7.9 becomes 8.0. If the number is rounded to the nearest tenth, there must be a digit in the tenths place, even if it is zero.

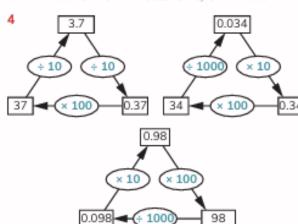
# > Workbook answers

# Unit 1 The number system

#### Exercise 1.1

#### Focus

- $\frac{6}{10} + \frac{7}{100}$
- 2 5 thousandths
- 3 A: 5607 tenths + 9 thousandths, C: 56 + 0.79



- 5 91.969 = 90 + 1 + 0.9 + 0.06 + 0.009
- 6 0.645

#### Practice

- 7 5 tenths, 6 thousandths, 7 ones
- 8 a 560
- b 880
- c 412.8

- d 0.67
- 1.91
- f 0.63

9 D

10

in	out	
1.5	1500	
0.937	937	
16.24	16 240	
0.49	490	
0.07	70	

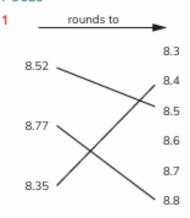
## Challenge

- 12 To multiply by 100, you move each digit two places to the left. If you multiply a whole number by 100, this has the effect of adding two zeros but this does not work for all numbers, for example, 1.5 × 100 does not equal 1.500.
- 13 0.007
- 14 Anton: 4.5, Ben: 0.045, Kasinda: 45 and Anya: 0.45
- 15 Leila has made the number 51.111. If she had put all her counters in the tens column, she would have made the number 90.

90 > 51.111

#### Exercise 1.2

#### Focus



- 2 10.35, 9.55, 10.05, 9.5
- 3 a 7.8
- b 8

1	Number	Number rounded to the nearest tenth	Number rounded to the nearest whole number
	3.78	3.8	4
	4.45	4.5	4
	3.55	3.6	4
	4.04	4.0	4

#### Practice

- 5 100.45
- 6 19.42
- 7 1.45 and 3.45
- 8 10.49

# Challenge

- 9 3.34
- 10 JULY
- 11 16.51 rounded to the nearest whole number is 17.

17.49 rounded to the nearest whole number is 17.

Both answers are 17.

- 16.51 rounded to the nearest tenth is 16.5.
- 17.49 rounded to the nearest tenth is 17.5.

The difference between 17.5 and 16.5 is 1 so Stefan is correct.

