# > Learner's Book

## answers

## Unit 1 Getting started

1 a 1-4-1

b 5

c 125

d 4

2 a 512 3 a 15

b 151

128

- 4 a 4 and 3000 and √225
  - b All of them.
- 5 10-

### Exercise 1.1

1 a integer 3

b irrational

e irrational

d integer 7

- e irrational
- 2 a  $\sqrt{1}$ ,  $7\frac{3}{12}$ , -38 and  $-\sqrt{2.25}$  are rational.
  - b √200 is the only irrational number.
- 3 a integer
- b sund
- e sund

- el integer
- integer
- surd
- 4 a irrational because √2 is irrational
  - **b** rational because it is equal to  $\sqrt{4} = 2$
  - c irrational because \$\sqrt{4}\$ is irrational
  - d rational because it is equal to  $\sqrt[3]{8} = 2$
- 5 a Learner's own answer. For example: √2 and -√2.
  - b Learner's own answer. For example:  $\sqrt{2}$  and  $2 \sqrt{2}$
- 6 a i 4

ii 6

- b. They are all a
  - They are all positive integers
- c Learner's own answer.
- d Learner's own answer.
- 7 a 7=49 and 8=64
- b 4'=64 and 5'=125

- 8 a The square root of any integer between 16 and 25 is a possible answer.
  - b The square root of any integer between 144 and 169 is a possible answer.
- 9 a 14
  - b 6
- 10 a i 1

11 2

- b  $(\sqrt{5}+1)\times(\sqrt{5}-1)=4$ , and so on
- c  $(\sqrt{N}+1)\times(\sqrt{N}-1)=N-1$
- d Learner's own answer.
- 11 a No. It is not a repeating pattern.
  - b Learner's own answer.

#### Reflection

- i true
- true
- iii false
- No. It might be a repeating pattern or it might not.

### Exercise 1.2

1 a 3×10°

b 3.2 × 10°

c 3.28 × 10°

d 3.2871×10<sup>a</sup>

2 a 6.3×10° c 3.04×10° b 4.88 × 10° d 5.2 × 10°

3 a 5400

- b 1410000
- c 233700000000
- d 87250000
- 4 Mercury 5.79×10° km; Mars 2.279×10°; Uranus 2.87×10°
- 5 a Russin

- b Indonesia
- The largest country is approximately 9 times larger than the smallest country.
- 6 a 7×10--

b 8.12 × 10→

- c 6.691 × 10
- d 2.05×10

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