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Solutions

1 Number and language

Exercise 1.1 page 5

Prime numbers are:
 1. 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97

Exercise 1.2 page 6

1. a) 1, 2, 3, 6
 b) 1, 3, 9
 c) 1, 7
 d) 1, 3, 5, 15
 e) 1, 2, 3, 4, 6, 8, 12, 24
 f) 1, 2, 3, 4, 6, 9, 12, 18, 36
 g) 1, 5, 7, 35
 h) 1, 5, 25
 i) 1, 2, 3, 6, 7, 14, 21, 42
 j) 1, 2, 4, 5, 10, 20, 25, 50, 100

Exercise 1.3 page 6

1. a) 3.5 b) 2.3 c) 2.3 d) 2
 e) 2.5 f) 13 g) 3.11 h) 5.7
 i) 2.5.7 j) 2.7

Exercise 1.4 page 7

1. a) $2^2 \times 3$ b) 2^2 c) $2^2 \times 3^2$
 d) $2^2 \times 5$ e) $2^2 \times 11$ f) $2^2 \times 7$
 g) $3^2 \times 5$ h) 3×13 i) $3 \times 7 \times 11$
 j) $3^2 \times 7$

Exercise 1.5 page 7

1. a) 4 b) 5 c) 6 d) 3 e) 9
 f) 22 g) 8 h) 13 i) 17 j) 12
 2. a) 42 b) 80 c) 70 d) 90 e) 120
 f) 105 g) 20 h) 231 i) 240 j) 200

Exercise 1.6 page 8

1. a) Rational b) Rational c) Irrational
 d) Rational e) Rational f) Rational
 g) Irrational h) Rational i) Rational

2. a) Irrational b) Irrational c) Rational
 d) Rational e) Rational f) Rational
 3. a) Rational b) Irrational c) Rational
 d) Rational

Exercise 1.7 page 9

1. a) 5 b) 3 c) 7 d) 10 e) 11
 f) 13 g) 0.1 h) 0.2 i) 0.3 j) 0.5

2. Students check their answers

3. a) 1 b) 1 c) 1 d) 1 e) 1
 f) 1 g) 1 h) 1 i) 1 j) 1

Exercise 1.8 page 9

1. The following answers are correct to 1 d.p.:
 a) 5.9 b) 6.7 c) 7.4 d) 7.7 e) 1.4

2. Students check their answers

Exercise 1.9 page 10

1. a) 2 b) 5 c) 3 d) 0.1 e) 0.3
 f) 6 g) 10 h) 100 i) -2 j) -3
 k) -10 l) -1

Exercise 1.10 page 10

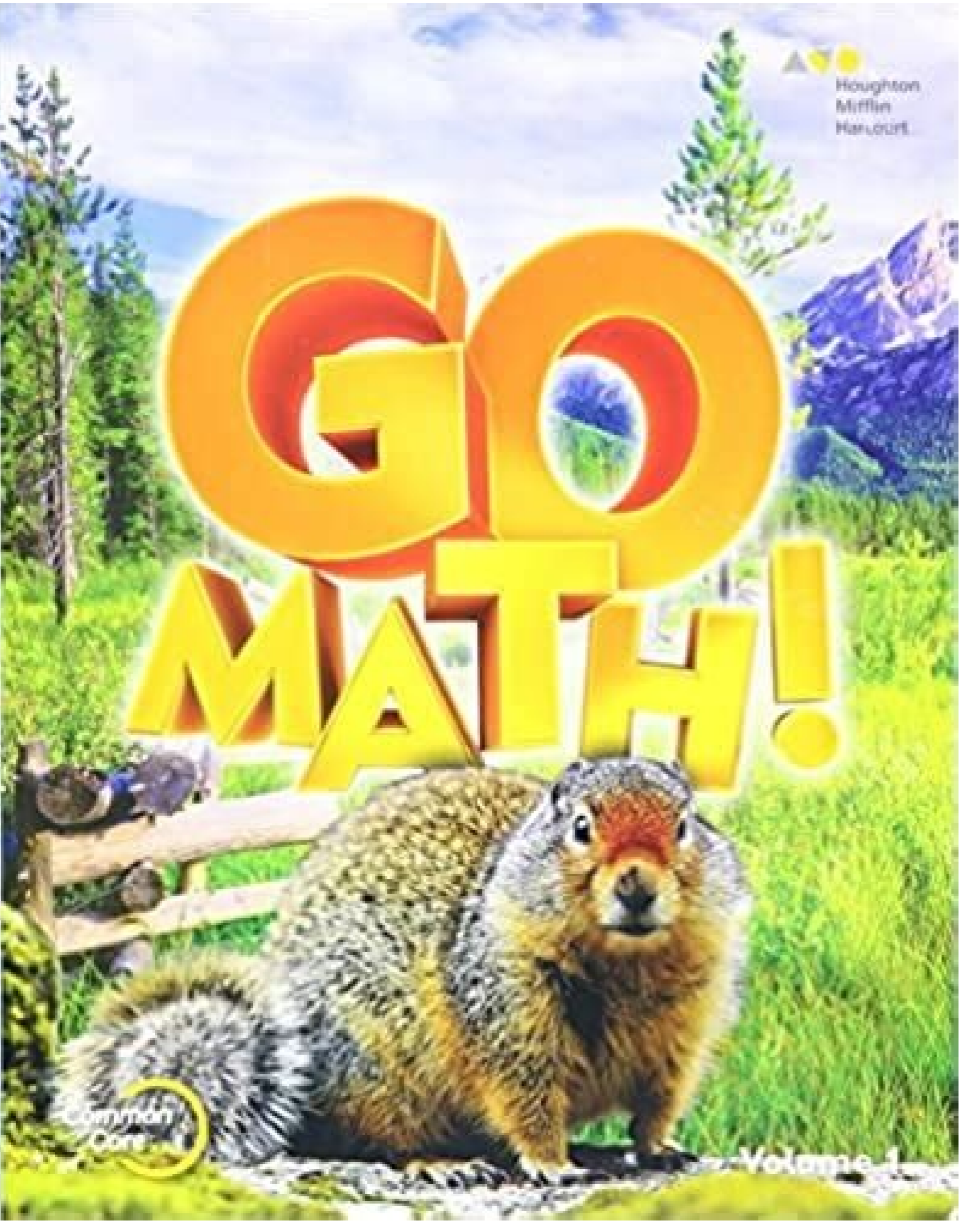
1. 146 °C
 2. a) -555 b) -5318 c) -588
 d) -5160 e) 590

3. 165 m
 4. 695 m

Student assessment 1 page 11

1. a) Rational b) Irrational c) Rational
 d) Rational e) Rational f) Irrational

2. a) 1 b) 3 c) 8
 3. a) 81 b) 225 c) 0.04
 d) 0.49
 4. a) 12.25 b) 16.81 c) 0.0225



1. The following answers are correct to 1 d.p.:
 a) 5.9 b) 6.7 c) 7.4 d) 7.7 e) 1.4



