

Answers

Chapter 1 Number skills

Are you ready?

- 1 a 2 b 10 c -14
 2 a -8 b 3 c -10
 3 a 7.8 b 6.74 c 10.043
 4 a 24 b 3.29 c 56.78218
 5 a 7.94 b 6.23 c 182
 6 a $2\frac{1}{2}$ b 7 $\frac{12}{5}$
 8 a $1\frac{1}{20}$ b $\frac{11}{20}$ c $1\frac{1}{10}$
 9 a $\frac{1}{6}$ b $\frac{6}{11}$ c $2\frac{1}{3}$
 d $1\frac{1}{2}$ e 7 f $4\frac{3}{4}$
 10 a 0.48 b 0.05 c 0.189
 11 a 30 b 27

Exercise 1A – Order of operations using whole numbers

- 1 a 16 b 0 c 9 d 9 e 12
 f 18 g 480 h 0 i 4 j 30
 k 12 l 18 m 26 n 68 o 12
 p 80 q 4 r 48 s 2 t 3
 2 a C b D c A
 3 a 12 b 10 c 8 d 6 e 0
 f 44 g 2 h 78 i 92 j 4
 k 0 l 3 m 14 n 0 o 340
 4 3
 5 \$250, $100 + 2 \times (100 - 25)$
 6 a 5 b -7 c -26 d -1 e -11
 f -13 g 10 h -3 i 4 j 36
 k -60 l -1 m -3 n 24 o 30
 p -15
 7 a -2 b -11 c -11 d 13 e -3
 f 2 g 1 h 6 i -9 j -3
 k -4
 8 a B b D c C
 9 a 6 b -21 c -2 d -5 e -36
 f -48 g -16 h -2 i -11 j -40
 k 6 l -8 m 17 n -23 o -9
 p 2 q 42 r 1 s 38 t 18
 10 a B b A c D d B e A
 11 a + b $\times$ c + d - e +, -
 f $\times$, + g $\times$, + h -, - i -, $\times$
 j $\times$, +, $\times$ or $\times$, $\times$, - k -, - l +, + m -, +
 n -, $\times$ or +, - o -, $\times$, +
 p -, -, + or +, $\times$, -
 12 95 metres 13 22°C
 14 a A, B, D b C c C, D

Exercise 1B – Estimation and rounding

- 1 a i 5.9 ii 5.89 iii 5.893
 b i 67.8 ii 67.81 iii 67.806
 c i 712.1 ii 712.14 iii 712.138
 d i 81.1 ii 81.05 iii 81.054
 e i 504.9 ii 504.90 iii 504.896

- 2 a 26 b 317 c 1028 d 20
 3 a 3047.3 b 24.7 c 8.3 d 20.0
 4 a i 600 000 ii 570 000 iii 574 000 iv 574 200
 b i 400 000 ii 430 000 iii 431 000 iv 431 000
 c i 30 000 ii 29 000 iii 28 600 iv 28 620
 d i 1 000 000 ii 1 100 000 iii 1 070 000
 iv 1 067 000
 e i 500 000 ii 460 000 iii 459 000
 iv 458 600
 5 a 26 b 320 c 1000 d 20
 6 a 0.0852 b 0.000580 c 0.00000807
 d 0.00677 e 0.0000270 f 0.000352
 7 a 3 b 800 c 800 d 10 e 400
 f 100 g 1200 h 270 i 100 j 500
 k 110 l 20 m 100 000 n 696 o 60 000
 8 a D b D c D d B
 9 \$9000

Maths Quest challenge (page 13)

- 1 10 km/h
 2 11 of digit 0, 21 of digit 1, 20 of all of the other digits

10 Quick Questions 1

- 1 -18 2 6
 3 4 4 15
 5 -21 6 10
 7 $\times$, +, +, or +, +, $\times$ 8 1.7456
 9 0.006 060 10 90

Exercise 1C – Decimals

- 1 a 9.774 b 2.377 c 39.424 d 23 e 23.1
 f 0.6 g -7.2 h 22.976 i 360 j 10
 k -44.95 l 13.2
 2 a 15.22 b 4.57 c 24.96 d 33.18 e 7.26
 3 a 0.4, 0.66, 0.71 b 0.23, 2.3, 23
 c 0.7, 1.04, 1.32 d 1.02, 1.1, 1.22
 e 0.06, 0.5, 0.56 f 0.323, 0.35, 0.4
 4 a 0.24, 0.204, 0.2004 b 0.11, 0.081, 0.062
 c 0.77, 0.707, 0.7 d 0.09, 0.082, 0.0802
 e 1.2304, 1.23, 1.204 f 0.39, 0.3592, 0.359
 5 a C b D c B d A
 6 a $\frac{9}{10}$ b $\frac{1}{3}$ c $\frac{4}{25}$ d $\frac{20}{100}$ e $\frac{36}{100}$
 f $\frac{3}{20}$ g $\frac{2}{25}$ h $1\frac{1}{2}$ i $2\frac{21}{25}$ j $\frac{1}{4}$
 k $\frac{121}{250}$ l $\frac{561}{1000}$ m $\frac{11}{40}$ n $\frac{1}{16}$ o $\frac{71}{100}$
 7 a 72% b 31% c 89% d 57%
 e 90% f 6% g 78.2% h 61.75%
 i 0.94% j 135% k 160.2% l 1100%
 m 230% n 575% o 248.5%
 8 a B b B c D
 9 \$80.50
 10 a \$50 b \$46.75

Maths Quest challenge (page 17)

- 1 36 apples 2 125 m² 3 90 s

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