Mixed revision 3

See Exercise 9-03

1 Draw a number plane and mark the following points.

$A(1, 3)$ $B(-2, 2)$ $C(3, -4)$ $D(-2, -3)$ $E(0, 7)$ $F(-3, 0)$

See Exercise 7-01

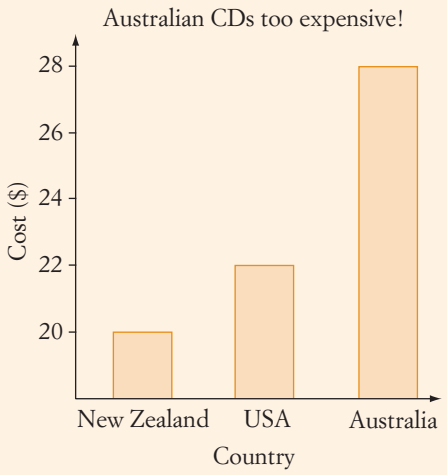
2 Draw a number line labelled from 0 to 3, and mark these decimals on it.

0.5, 2.25, 1.3, 2.9, 0.75, 1.6

See Exercise 10-02

3 **a** Explain why the graph below gives a misleading impression.

b Redraw the graph correctly.



See Exercise 8-01

4 Copy and complete the following.

a 2000 mg = _____ g **b** 2 t = _____ kg

c 56 days = _____ weeks **d** 6.5 L = _____ mL

e 3 days = _____ hours **f** 4 kg = _____ g

g 1500 g = _____ kg **h** 3000 mL = _____ L

i 480 s = _____ min **j** 2500 kg = _____ t

k 9.5 g = _____ mg **l** 12000 000 mg = _____ kg

See Exercise 10-03

5 **a** Construct a dot plot for the following scores, which are marks in a test out of 25:

11	8	12	12	15	13	10	12	13	15	16
22	12	11	11	10	13	16	12	15	12	11

b Where are the scores clustered?

c Identify any outliers.

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6 Organise this set of scores into an ordered stem-and-leaf plot: *See* Exercise 10-04

9	5	15	22	11	14	19	28	18
13	17	6	24	16	15	4	10	21

7 Find: *See* Exercise 7-03

a $1.54 + 7.9$ **b** $9.2 - 6.1$ **c** $22.6 - 13.55$

d $6.31 + 0.2 + 15.38$ **e** $0.003 + 1.01 + 4.394$ **f** $9.803 - 4.52$

8 Evaluate each product. *See* Exercise 7-06

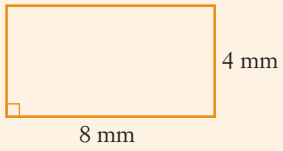
a 6.2×0.7 **b** 4.21×0.3 **c** 0.05×1.4

9 Evaluate each quotient. *See* Exercise 7-07

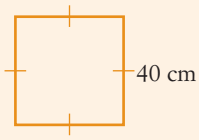
a $60.138 \div 6$ **b** $1.672 \div 0.02$ **c** $4.032 \div 0.3$

10 Find the perimeter of each shape. *See* Exercise 8-02

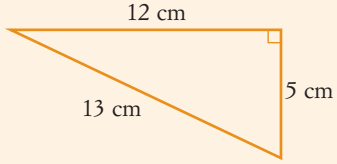
a



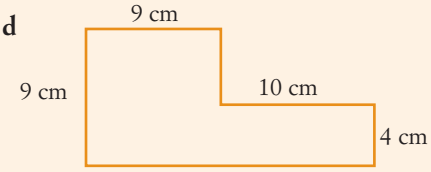
b



c



d

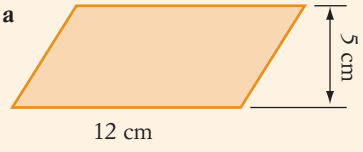


11 Find the area of each shape in question **10**. *See* Exercise 8-07

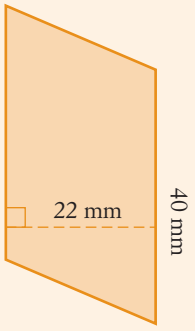
12 A sheet of A4 paper has a width of 21.1 cm and a length of 29.7 cm. Find its perimeter. *See* Exercise 8-02

13 Find the area of each parallelogram. *See* Exercise 8-06

a



b



Mixed revision 3

See Exercise 9-04

14 Plot the ordered pairs for this table of values on a number plane, with both axes extending from −4 to 4. Use a ruler to join the points.

x	−1	0	2	3
y	−4	−2	2	4

See Exercise 7-09

15 Convert each fraction to a decimal.

a $\frac{1}{5}$ **b** $\frac{3}{8}$

See Exercise 7-09

16 Convert $\frac{5}{9}$ to a recurring decimal.

See Exercise 7-10

17 Round:

a 0.753 to one decimal place **b** 12.064 to two decimal places

c $9.8217 to the nearest cent **d** 3.795 to the nearest tenth

See Exercise 7-11

18 **a** If the temperature at Penrith was 20.6°C at 9:00 a.m. and was 29.3°C at 3:00 p.m., by how much did it rise?

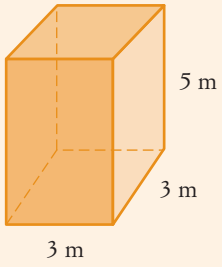
b A piece of cloth 2.5 m long was cut into 10 equal pieces. How long was each piece?

c Sandra bought 40 litres of LPG at 79.9c per litre. Catherine bought 40 litres at 87.9c per litre. How much more than Sandra did Catherine pay?

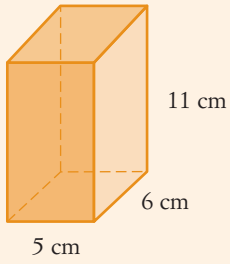
See Exercise 8-10

19 Find the volume of each rectangular prism.

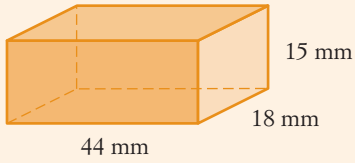
a



b



c



See Exercise 8-11

20 Convert 7500 L:

a to kL **b** to m^3

See Exercise 8-11

21 Find the capacity of a box measuring 48 cm by 33 cm by 17 cm:

a in mL **b** in L

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22 For each of the following sets of scores, find:
i the mean
ii the mode

See Exercise 10-05

a 32 30 31 30 35 30 29
b 3.3 3.5 3.3 3.8 3.4 3.5 3.9

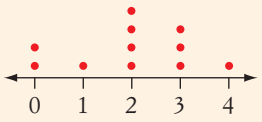
23 For each set of scores in question **22**, find:
i the median
ii the range

See Exercise 10-06

24 For each of the sets of data below, find:
i the range **ii** the mode
iii the median **iv** the mean (to two decimal places).

See Exercise 10-07

a Number of goals scored



b Ages of soccer players

Stem	Leaf			
1	5	7	9	9
2	1	1	1	2
3	0			

25 **a** A rectangle has an area of 20 cm^2. If its length is 5 cm, how wide is it?
b A square has an area of 64 cm^2. Find its perimeter.

See Exercise 8-04