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Series Author:

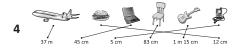
Nicola Herringer



Pages 1-2

- **1a** 200
- **b** 400
- c 25
- **d** 900
- **e** 50
- **f** 125
- 2a 0.1
- **b** 0.3
- **c** 0.9
- **d** 0.5
- **e** 0.75
- **f** 0.8

3a-c Answers will vary.



- **5a** 10
- **b** 12.5
- **c** 4
- **6a** 8.5
- **b** 9.5
- **c** 13

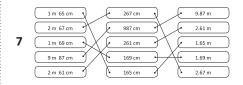
7a-c Teacher check.

8a-g Answers will vary.

Pages 3-6

- **1a** 1.69
- **b** 2.91
- **c** 3.23
- **d** 0.34
- **u** 0.5-
- **e** 9.04
- **f** 5.09
- 2a 4.16
- **b** 3.19
- **c** 5.67
- **d** 6.07
- **e** 5.1
- **f** 0.04

- **3a** 934
- **b** 345
- **c** 607
- **d** 547
- **e** 94
- **f** 951
- 4a-c Teacher check.
- **5a, b** Answers will vary.
- c Teacher check.
- **6a** 0.4 m + 0.3 m + 0.3 m; You can trace over these in green.
- **b** 0.6 m + 0.8 m + 0.6 m
- **c** 0.4 m + 0.3 m + 1.3 m + 1.0 m



- **8a** 1.60
- **b** 1.45
- **c** 1.83
- 9 Teacher check.
- a Observe students.
- **b** Teacher check.

Pages 7-8

- 1a-c Answers will vary.
- **2a** 40
- **b** 30
- **c** 100
- **d** 65
- **e** 70
- . .
- **f** 5
- **3a** 1; 7
- **b** 2; 9
- c 4; 2
- **d** 3; 6
- - / -
- **4a** 1.2
- **b** 4.6
- **c** 6.3
- **d** 4.8

- **5** 9; 4
- **a** 9; 9
- **b** 10; 2
- c 4; 5
- **d** 6; 3
- 6a 7 mm; 0 cm and 7 mm; 0.7 cm
- **b** 15 mm; 1 cm and 5 mm; 1.5 cm
- c 13 mm; 1 cm and 3 mm; 1.3 cm
- d 25 mm; 2 cm and 5 mm; 2.5 cm
- e Redback, black widow, funnel web, brown recluse

Page 9

- 1a 2 km
- **b** 6 km
- **c** 32 km
- **d** 87 km
- **e** 7.5 km
- f 21.25 km
- **g** 5.34 km
- **h** 69.73 km
- 2 23.22 km; 23.2 km; 22 300 km; 22.03 km; 20 300 m
- **3a** 1074 km
- **b** 4.66 km

Page 10

What to do

Observe students.

Pages 11-12

- **1a** $P = \underline{6} + \underline{1} + \underline{6} + \underline{1} = \underline{14} \text{ cm}$
- **b** P = 3 + 3 + 3 + 3 = 12 cm
- **c** P = 4 + 3 + 5 = 12 cm
- **d** P = 4 + 3 + 2 + 3 = 12 cm
- 2 8+5+3+2+2=20 cm
- 3a 12 cm
- **b** 18 cm
- **c** 12 cm
- **d** 14 cm

Pages 11-12

3e 18 cm

f 14 cm

4a, b Answers will vary.

Pages 13-14

1a 18

b 36

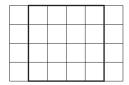
c 12

d 12

2 B 3 + 3 + 3 + 3 + 3 = 15 cm; 5 sides × 3 cm = 15

C 5+5+5+5+5+5=30 cm; 6 sides \times 5 cm = 30 cm

3a 16



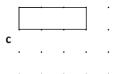
b 8



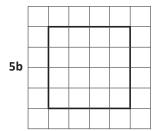
4 Answers may vary. Sample answers



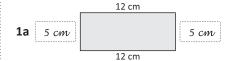
b

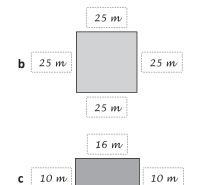


5a 16



Page 15



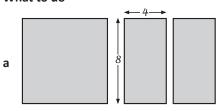


16 m

Page 16

d 11 cm

What to do



8 + 4 + 8 + 4 = 24;

P = 24 cm

b 10 cm

c 40 cm

Page 17

What to do

Diagram 1 64 cm

Diagram 2 54 cm

Pages 18-20

1a 3

b 5

c 9

d 11

e 16

f 6

g 10

h 12

2 Answers will vary.

3a 4

b 5

c 9

4 Answers will vary. Teacher check.

5a, b Answers will vary.

6 Answers will vary.

7a 20 cm²

b 25 cm²

c 18 cm²

Page 21

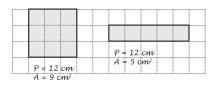
1a P = 20 cm; A = 16 cm^2

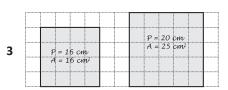
b P = 16 cm; $A = 16 \text{ cm}^2$

c P = 12 cm; $A = 6 \text{ cm}^2$

d P = 14 cm; $A = 9 \text{ cm}^2$

2 Answers will vary. Sample answers:

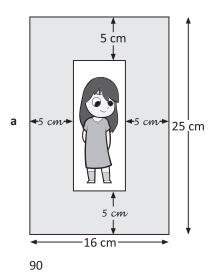


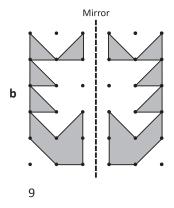


P and A are the same in the 1st square.

Page 22

What to do





Page 23

What to do next

a 32

b 64

Units of length

Name ____

Convert these metres to centimetres:

- **a** 5 m = cm
- cm **b** $6\frac{1}{2}$ m = cm **c** $2\frac{1}{4}$ m =
- **c** $2\frac{1}{4}$ m = cm

2 Convert these centimetres to metres using decimals:

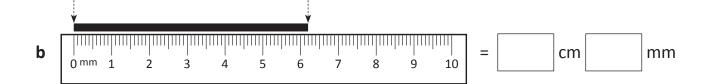
- **a** 330 cm = m
- **b** 50 cm =
- m **c** 160 cm = m

3 Convert these measurements to and from kilometres:

- **a** 17 000 m = km
- **b** 6.13 km =
- **c** 18.42 km =
- **d** 3570 m = km

Write these lengths as centimetres and millimetres:

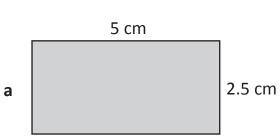


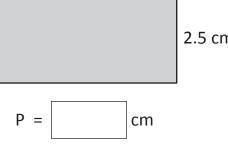


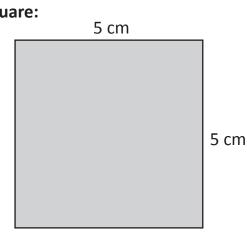
Skills	Not yet	Kind of	Got it
Coverts between centimetres and metres			
Converts between metres and centimetres			
Converts between kilometres and metres			
Records lengths in decimal notation			

What is perimeter?

Find the perimeters of the rectangle and the square:







P = 0	m
---------	---

- On the centimetre dot paper below, use a ruler to draw the shapes.
 - **a** Draw a rectangle with a perimeter of 16 cm.

b	Draw a square with a perimeter
	of 12 cm.

•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
	•	•	•	•	•	•	•	•		•	•	•	•	•	
							•								
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	•	•	•	•	•	•		

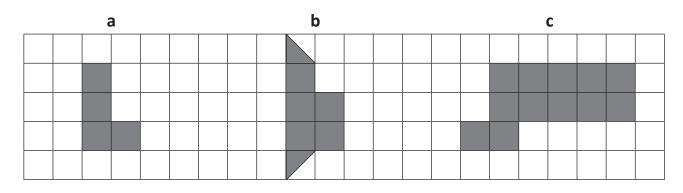
Skills	Not yet	Kind of	Got it
Defines the term 'perimeter'			
Measures the perimeter of rectangles and squares			
Draws rectangles with a defined perimeter			

- 1 Would you use cm² to measure these areas? Write yes/no.
 - **a** The area of this page.
- **b** The area of a school playground.

- **c** The area of a coin.
- **d** The area of a netball court.



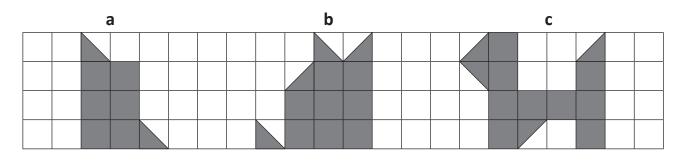
Record the area of each shape on this 1 square centimetre grid.



Area = cm^2 Area = cm^2

Area = cm²

Find the area of these irregular shapes. Use the 1 cm grid as your guide.



Area = $_{\text{cm}} \text{ cm}^2$

Area = $\underline{\hspace{1cm}}$ cm² Area = $\underline{\hspace{1cm}}$ cm²

Skills	Not yet	Kind of	Got it
Records area using the abbreviations for square metres (m²) and square centimetres (cm²)			
Measures the size of regular and irregular shapes using square centimetres			

Series E – Length, Perimeter and Area – Student Progress Record Name_____ Class____ Date _____ What went well: What I need to improve: ______ Series E – Length, Perimeter and Area – Student Progress Record Name_____ Class____ Date_____ What went well: What I need to improve:

ASSESSMENT ANSWERS

Page 4

- **1a** 500
- **b** 650
- **c** 225
- **2a** 3.3
- **b** 0.5
- **c** 1.6
- **3**a 17
- **b** 6130
- c 18 420
- **d** 3.57
- **4a** 7; 5
- **b** 6; 2

Page 5

- 1 Perimeter is the total length of the outside of an enclosed space.
- **2a** 15
- **b** 20
- 3a, b Answers will vary.

Page 6

- 1a yes
- **b** no
- **c** yes
- **d** no
- **2**a 4
- **b** 6
- **c** 12
- **3**a 7
- **b** 10
- **c** 11



Topic	Reference	Strand	Objective
Units of length	4M5	Measurement	Convert between different units of measure (e.g. kilometre to metre; hour to minute).
Perimeter	4M7a	Measurement	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.
Area	4M7b	Measurement	Find the area of rectilinear shapes by counting squares.