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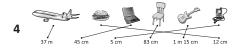
Series Author:

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

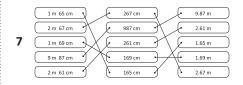
**7a-c** Teacher check.

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

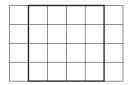
c 12

**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



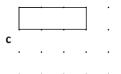
**b** 8



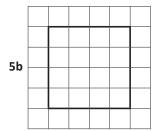
**4** Answers may vary. Sample answers



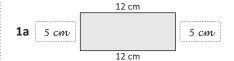
b . . . .

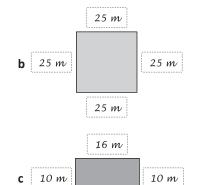


**5a** 16



Page 15



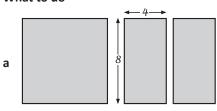


16 m

#### 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 cm<sup>2</sup>

**b** 25 cm<sup>2</sup>

c 18 cm<sup>2</sup>

#### Page 21

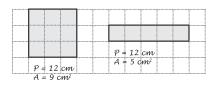
**1a** P = 20 cm; A =  $16 \text{ cm}^2$ 

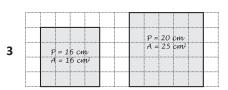
**b** P = 16 cm;  $A = 16 \text{ cm}^2$ 

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

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

**2** Answers will vary. Sample answers:

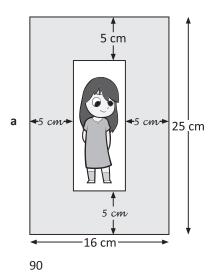


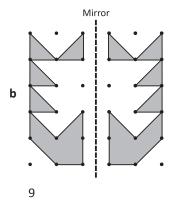


P and A are the same in the 1st square.

Page 22

#### What to do





Page 23

What to do next

**a** 32

**b** 64

## Units of length

Name \_\_\_\_

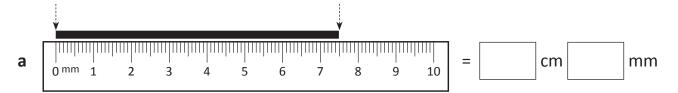
Convert these metres to centimetres:

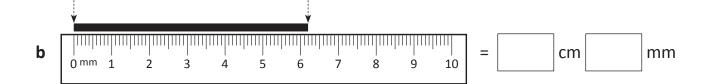
- **a** 5 m = cm
- cm **b**  $6\frac{1}{2}$  m = cm **c**  $2\frac{1}{4}$  m =
- **c**  $2\frac{1}{4}$  m = cm

2 Convert these centimetres to metres using decimals:

3 Convert these measurements to and from kilometres:

Write these lengths as centimetres and millimetres:



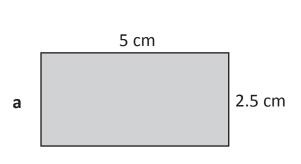


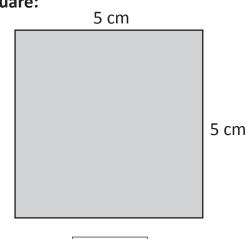
Skills	Not yet	Kind of	Got it
Coverts between centimetres and metres			
Converts between metres and centimetres			
Converts between kilometres and metres			
Records lengths in decimal notation			

1 What is perimeter?

2 Find the perimeters of the rectangle and the square:

cm





cm

- 3 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

P =

•	•	•	·	·	·	·	·	
•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	
•	•	•	•	•	•	•	•	

•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	٠	•	•	•

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

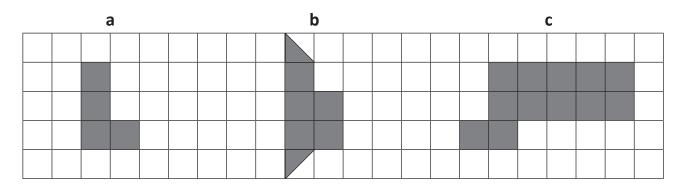
- 1 Would you use cm<sup>2</sup> to measure these areas? Write yes/no.
  - **a** The area of this page.
- **b** The area of a school playground.

**c** The area of a coin.

**d** The area of a netball court.

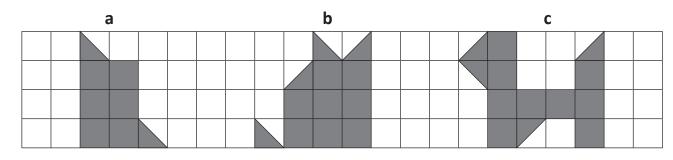


Record the area of each shape on this 1 square centimetre grid.



Area = 
$$\_\_$$
 cm<sup>2</sup>

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



Area = 
$$\_\_$$
 cm<sup>2</sup>

$$Area = \underline{\hspace{1cm}} cm^2$$

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.