

### Contents

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Series Author:

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Page 1













**3** Answers will vary. Possible answers:



Pages 2-3

- 1a obtuse
- **b** acute
- **c** right
- **d** obtuse
- e right
- **f** acute

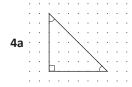
**2** Answers will vary. Possible answers:

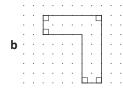


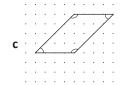




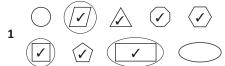
3a-c Answers will vary.







#### Page 4



- **2a** 4; 4
- **b** 5; 5
- c 4; 4
- **d** 8; 8
- **e** 6; 6
- **f** 4; 4
- **g** 4; 4
- **h** 3; 3

- 3 square, rectangle, rhombus, trapezium
- 4 A polygon must have straight sides.

#### Page 5

- 1a isosceles
- **b** equilateral
- **c** scalene
- **d** scalene
- **e** equilateral
- **f** isosceles
- 2 Answers will vary.

#### Pages 6-7

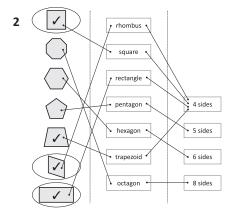
- **1** 22
- **2a** 3
- **b** 3
- **c** 2
- **d** 11
- e 11

#### 3a square

- **b** trapezium
- **c** parallelogram
- **d** rectangle

#### Page 8

- 1a yes; yes
- **b** yes; yes
- c no; yes
- d no; yes
- e no; yes
- f no; yes



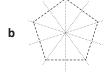
#### Pages 9-10

- 1a hexagon
- **b** hexagon
- c heptagon
- **d** hendecagon
- e quadrilateral
- **f** triangle
- 2 Answers will vary.
- 3a irregular
- **b** irregular
- **c** regular
- **d** irregular
- e regular
- f regular
- **4a** The angles are not all the same.
- **b** The sides are not the same length.

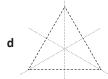


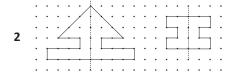
Teacher check.

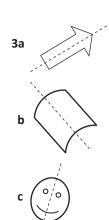


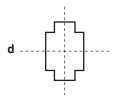


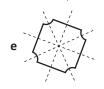














Page 13
Teacher check.

Page 14

1a rectangular prism (cuboid); 6; 8; 12

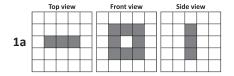
- **b** pentagonal prism; 7; 10; 15
- c hexagonal prism; 8; 12; 18
- 2a square pyramid; 5; 5; 8
- **b** pentagonal pyramid; 6; 6; 10
- c hexagonal pyramid; 7; 7; 12

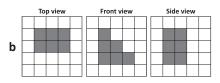


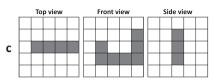


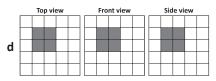


Page 15









#### Page 16

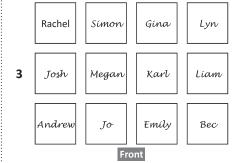
What to do

- **a** 8
- **b** 12
- **c** 6
- **d** 1

Total: 27

#### Pages 17-18

- 1a right
- **b** right
- **c** right
- **d** right
- e left
- **f** left
- 2 SILENCE





#### Pages 17-18

**4a** D

**b** E

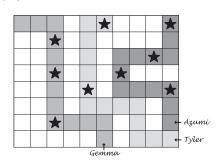
c A

**d** B

e C

Page 19

1a-c



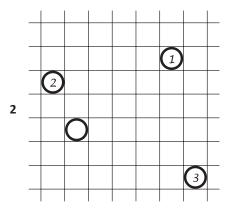
**d** Gemma: 30; Azumi: 40; Tyler: 20

#### Page 20

**1a** 1 up, 4 left

**b** 4 down, 2 right

c 2 down, 2 left



#### Pages 21-23

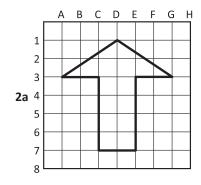
1a octagon

**b** 27

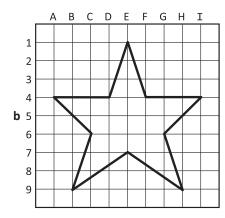
c pentagon

**d** 14

e It's a circle so it's not a polygon.



Picture: Arrow



Picture: Star

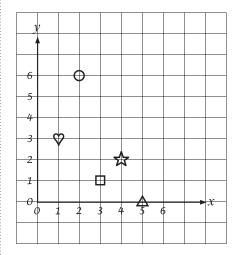
3a (2, 1)

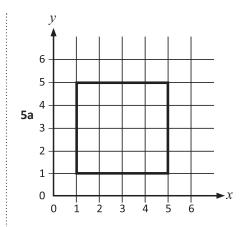
**b** (6, 6)

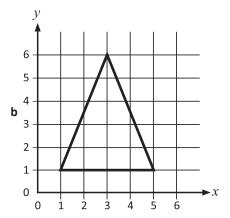
c (3, 4)

**d** (0, 5)

4а-е







#### Page 24

1a Newland Ln

**b** Alt St

c Lawson Ln

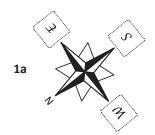
**d** G5

e Teacher check.

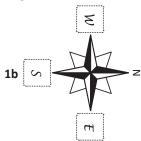
f Sample answer:

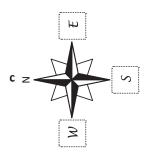
Go along Cuthbert St, cross over Alt St and Alt Ln. Turn left at Newland St. Cross over Birrell St, pass Kieran St on the left. Clemenston Park is on the left.

Page 25



Page 25





**2a** SE

**b** NE

c SW

d NW

e SE

#### Page 26

What to do

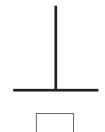
Observe students.

Put a tick under the parallel lines and a cross under the perpendicular lines:

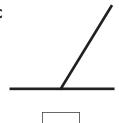
a



b



C

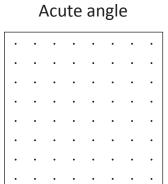


d

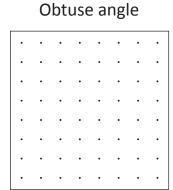


2 Draw one of each type of angle in each box:

a



b

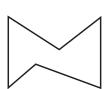


C

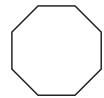
-	KIB	nt	an	gie	•	
		•	•	•	•	
•	•		•		•	•
•	•	•	•	•	•	•
•	•	٠	٠	•	•	•
•	٠	٠	٠	•	٠	•
٠	٠	٠	٠	•	•	•
٠	٠	•	•	•	•	•
•	•	•	•	•	•	•

3 Draw all the lines of symmetry you can see in each shape:









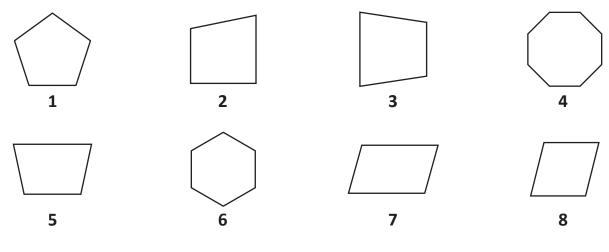


	^
\	/
\	/
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Skills	Not yet	Kind of	Got it
Recognises parallel and perpendicular lines			
Classifies angles as acute, obtuse or right angles			
Identifies all lines of symmetry for a 2D shape			

### 4 Complete the following:

**a** Colour the quadrilaterals, tick the parallelograms.



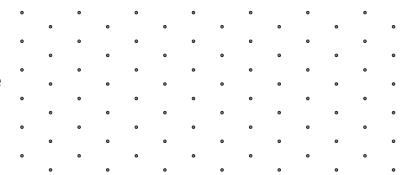
- **b** Which shape above is a hexagon?
- c Which shape is an octagon?
- **d** Write a capital T inside any shape that is a trapezium.
- **e** Write a capital R inside any shape that is a rhombus.
- 5 Draw a picture or create a design below using pentagons, trapeziums and triangles:

Skills	Not yet	Kind of	Got it
Names 2D shapes: square, circle, rectangle, triangle, pentagon, hexagon, octagon, rhombus			
Describes 2D shapes by the number of sides and angles			

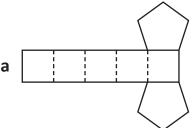
Name each object and the number of faces:

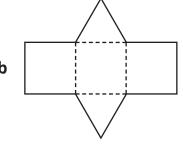
	a	b Company	c	d
Name				
Faces				
Edges				
Vertices				

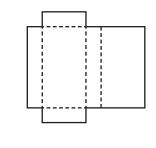
2 Mahlia made a 3D shape using toothpicks and plasticine. She used eight toothpicks and five pieces of plasticine. What shape did she make? Draw it on the dot paper.



3 Name the shape for each net:

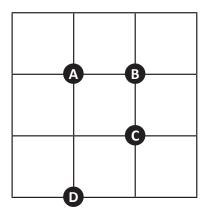






Skills	Not yet	Kind of	Got it
Names prisms, pyramids, cylinders, cones and spheres			
Makes skeletal models of 3D objects			
Recognises the nets of common 3D objects			

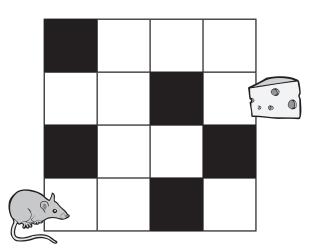
Write the compass direction of the letters (N, S, E, W, NE, NW, SE, SW):



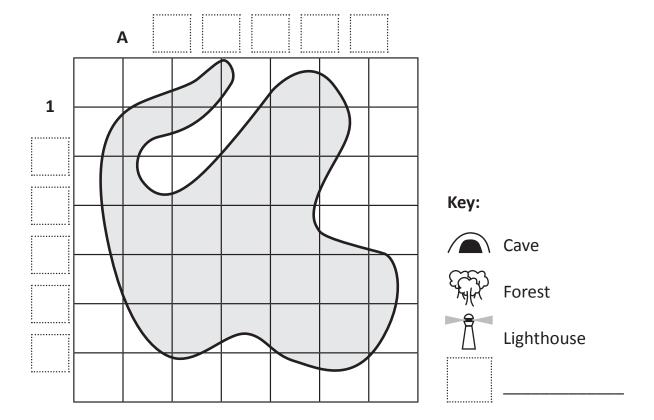
- **a** A is \_\_\_\_\_ of C.
- **b** B is \_\_\_\_\_ of C.
- **c** D is \_\_\_\_\_ of C.
- **d** A is of B.
- 2 Draw the following on this picnic blanket:
  - **a** A pizza in the bottom right hand corner.
  - **b** A bowl of grapes to the left of the pizza.
  - **c** A plate of cookies in the top left hand corner.
  - **d** A line of ants moving diagonally across from the bottom left hand corner to the middle.
  - **e** Two plates to the right of the cookies.



3 Write a set of directions for the mouse to get to the cheese:



4 Complete the features on this map:



- **a** Complete the labelling of the grid coordinates.
- **b** The cave is at C4.
- **c** The lighthouse is at B1.
- **d** The forest is at F5.
- e Draw a tent at D2. Add this to the key.
- **f** What direction is the cave from the forest?

Skills	Not yet	Kind of	Got it
Uses 8 compass directions to describe location			
Describes the direction of one place or object relative to another			
Describes a route on a basic map			
Uses grid coordinates to describe position			
Uses a key or legend to read a map			

# Series E – Geometry – Student Progress Record

Name	Class	Date	
What went well:			
What I need to improve:			
			_
C : F C : C: I :	B B		
Series E – Geometry – Student	Progress Record		
Series E – Geometry – Student	Progress Record		
Series E – Geometry – Student	Progress Record	<u> </u>	
Series E – Geometry – Student  Name			
Name	Class		
	Class		
Name	Class		
What went well:	Class	Date	
Name	Class	Date	
What went well:	Class	Date	
What went well:	Class	Date	
What went well:	Class	Date	
What went well:	Class	Date	

#### **ASSESSMENT ANSWERS**

#### Pages 5-6

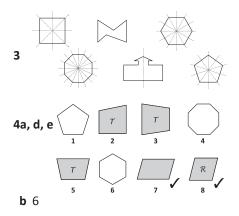
1a 🗸

ь **X** 

c n/a

d 🗸

2a-c Answers will vary.



5 Answers will vary.

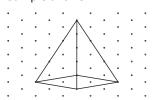
#### Page 7

**c** 4

1

Name	cone	hexagonal prism	pentagonal pyramid	sphere
Faces	2	8	6	1
Edges	1	18	10	0
Vertices	1	12	6	0

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



3a pentagonal prism

**b** triangular prism

c rectangular prism

#### Pages 8-9

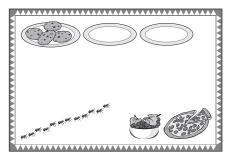
1a NW

**b** N

c SW

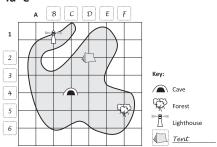
d W

2a-e



**3** Answers will vary.

4а-е



f NW

Topic	Reference	Strand	Substrand	Objective
Lines, Angles and Shapes	4G2a	Geometry	Properties of shapes	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.
Lines, Angles and Shapes	4G2b	Geometry	Properties of shapes	Identify lines of symmetry in 2D shapes presented in different orientations.
Lines, Angles and Shapes	4G2c	Geometry	Properties of shapes	Complete a simple symmetric figure with respect to a specific line of symmetry.
Lines, Angles and Shapes	4G4	Geometry	Properties of shapes	Identify acute and obtuse angles and compare and order angles up to two right angles by size.
Investigating 3D Shapes	4G2a	Geometry	Properties of shapes	Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.
Position	4P2	Geometry	Position and direction	Describe movements between positions as translations of a given unit to the left/right and up/down.
Position	4P3a	Geometry	Position and direction	Describe positions on a 2D grid as coordinates in the first quadrant.
Position	4P3b	Geometry	Position and direction	Plot specified points and draw sides to complete a given polygon.