


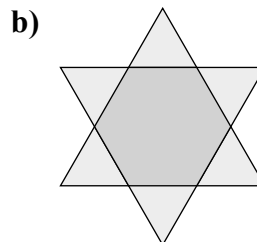
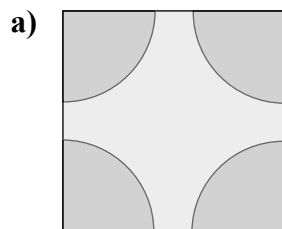
Chapter 1 Review

For #1 to #6, choose the number that best matches the description.

- | | |
|----------------------|---|
| 1. line symmetry | _____ another name for a reflection line |
| 2. rotation symmetry | _____ type of symmetry where the shape is divided into reflected halves |
| 3. angle of rotation | _____ the total area of all the faces of an object |
| 4. surface area | _____ type of symmetry where a shape is turned onto itself |
| 5. line of symmetry | _____ number of times a shape fits onto itself in 1 turn |
| 6. order of rotation | _____ the size of turn for a shape to rotate onto itself |

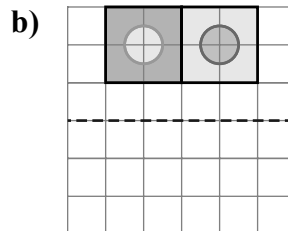
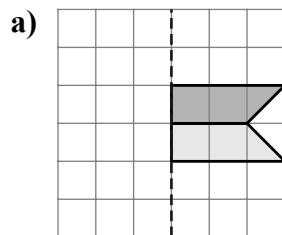
1.1 Line Symmetry, pages 6–14

7. Draw the lines of symmetry. Write the number of lines of symmetry for each design.  Then, describe each line of symmetry using the terms *vertical*, *horizontal*, and *oblique*.



_____	← Number of lines of symmetry → _____	
_____	← Description → _____	_____
_____		_____
_____		_____

8. Half of a figure is drawn. The dashed line is the line of symmetry. Finish drawing each figure.



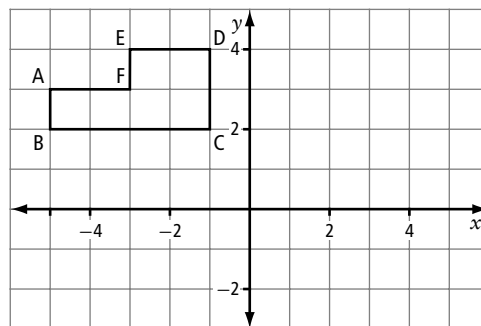
9. a) Draw a reflection of the shape in the y -axis.
Label the image A' , B' , C' , D' , E' , and F' .

- b) Write the coordinates of the reflection image.

A' (_____, _____) B' _____

C' _____ D' _____

E' _____ F' _____



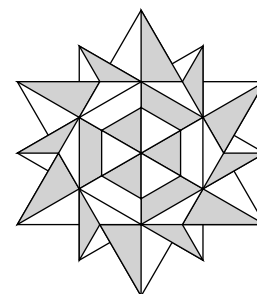
- c) Using a different colour, translate the *original* shape R6, D3.
Label the image A'' , B'' , C'' , D'' , E'' , and F'' .
- d) Which transformation shows symmetry? Circle REFLECTION or TRANSLATION.
Describe the symmetry using the terms *vertical*, *horizontal*, and *oblique*.

1.2 Rotation Symmetry and Transformations, pages 16–24

10. Complete the chart for each diagram.

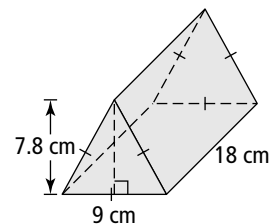
Diagram	Order of Rotation	Angle of Rotation (Degrees)	Angle of Rotation (Fraction of a Turn)
a)		$\frac{360^\circ}{\boxed{}} = \underline{\hspace{2cm}}$	$\frac{1}{\boxed{}}$
b)			

11. What type of symmetry does the design have?
Circle ROTATION SYMMETRY or LINE SYMMETRY or BOTH.
Give 1 reason for your answer.



1.3 Surface Area, pages 26–35

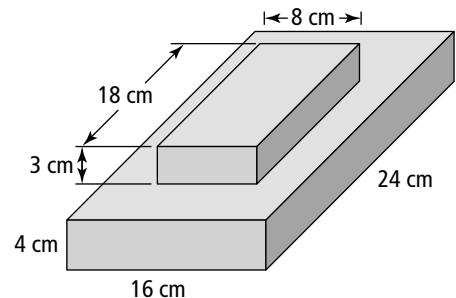
12. The triangular prism has 1 triangular end fastened to the wall.
All the other faces are showing.
What is the surface area of the faces that are showing?



Sentence: _____

13. Two blocks are placed 1 on top of the other.

- a) If the blocks are separated, what is the surface area of each block?



Small Block:

Area of front or back:

Area of top or bottom:

Area of side:

Total surface area:

Large Block:

Area of front or back:

Area of top or bottom:

Area of side:

Total surface area:

- b) What is the total surface area of the 2 blocks when separated?

Sentence: _____

- c) What is the surface area of the stacked blocks?

(answer to part b) – ($2 \times$ area of shape where blocks touch)

Sentence: _____