Practice worksheet | Perimeter, area and volume

Choosing useful 2D representations of objects

Name: _____ Date: _____

6 questions | 11 marks

1. Which representation is most useful for cutting out the faces of a box so they can be folded together? [1 mark]

2. Use the labelled plan shown to find the total number of cubes. [2 marks]

Top view: numbers show stack heights

1	2	1
1	0	0

RIGHT

FRONT

3. Use the plan shown. Draw the front elevation on square paper and state its heights, left to right. [2 marks]

Top view: numbers show stack heights

1	2	1
1	0	0

RIGHT

FRONT

4. Use the plan shown. Draw the right-side elevation. When viewed from the right, show the front row then the back row from left to right. State the two heights. [2 marks]

Top view: numbers show stack heights

1	2	1
1	0	0

RIGHT

FRONT

5. A front view of a rectangular building is 12 m wide and 5 m high. Can you find its volume from this information alone? Explain. [2 marks]

6. A designer wants to show both room positions and the outside height of a house. Explain why two drawings may be clearer than one angled sketch. [2 marks]