

2D Shapes Mark Scheme:																
<b>1</b>																
<b>1</b>	<table border="1"> <thead> <tr> <th>Shape</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>Shape 1</td> <td>Triangle</td> </tr> <tr> <td>Shape 2</td> <td>Parallelogram</td> </tr> <tr> <td>Shape 3</td> <td>Pentagon</td> </tr> <tr> <td>Shape 4</td> <td>Rhombus</td> </tr> <tr> <td>Shape 5</td> <td>Hexagon</td> </tr> <tr> <td>Shape 6</td> <td>Trapezium</td> </tr> </tbody> </table>	Shape	Name	Shape 1	Triangle	Shape 2	Parallelogram	Shape 3	Pentagon	Shape 4	Rhombus	Shape 5	Hexagon	Shape 6	Trapezium	[2]
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<b>2(a)</b>	6 sides hexagon	[1]														
<b>2(b)</b>	7 sides heptagon	[1]														
<b>2(c)</b>	9 sides nonagon	[1]														
<b>3</b>	$5 \times 3 = 15m^2$ or $8 \times 3 = 24m^2$	[1] student must choose all of the first equations or all of the second equations														
	$5 \times 3 = 15m^2$ or $2 \times 3 = 6m^2$	[1] student must choose all of the first equations or all of the second equations														
	$15m^2 + 15m^2 = 30m^2$ or $24m^2 + 6m^2 = 30m^2$	[1] student must choose all of the first equations or all of the second equations														
<b>4</b>	Identify that the area of a parallelogram is $b \times h$	[1]														
	$22 \times 45 = 990cm^2$	[1] Working out could be shown here but it is not necessary.														
<b>5(a)</b>	$\frac{1}{2}(a + b)h$	[1] Or identifies a correct equation/method for area of a trapezium														
	$\frac{1}{2}(9 + 13) \times 3$	[1]														
	$33m^2$	[1] Correct answer														

Turn over ►

<b>5(b)</b>	$33m^2 + 33m^2 = 66m^2$	[1]
	$66 \times 25 = \text{£}1650$	[1] Working out could be shown but not necessary
<b>6(a)</b>	<i>D, this is the only net where a cube with a lid is properly formed</i>	[1]
<b>6(b)</b>	A & B have too many faces	[1] Any valid explanation
	C Would have an overlap	[1] Any valid explanation
<b>7(a)</b>	$P = 2(l + w)$	[1]
	$P = 2(40 + 100)$	[1] This requires the student to see the combined measurements of the unmarked sides are equal to the labelled parallel side.
	$P = 280m$	[1]
<b>7(b)</b>	$280 \times 5$	
	$\text{£}1400$	[1] Correct answer

END