

2D Shapes Mark Scheme:																
1	<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	[5] Mark for each correctly paired shape and name
	Shape	Name														
	Shape 1	Triangle														
	Shape 2	Parallelogram														
	Shape 3	Pentagon														
	Shape 4	Rhombus														
	Shape 5	Hexagon														
Shape 6	Trapezium															
2(a)	6 sides hexagon	[1]														
2(b)	7 sides heptagon	[1]														
2(c)	9 sides nonagon	[1]														
3	$5 \times 3 = 15m^2$ 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														
4	Identify that the area of a parallelogram is $b \times h$	[1] Correct formula														
	$22 \times 45 = 990 \text{ cm}^2$	[1] Working out could be shown here but it is not necessary.														
5(a)	$\frac{1}{2}(a + b)h$	[1] Or identifies a correct equation/method for area of a trapezium														
	$\frac{1}{2}(9 + 13) \times 3$	[1] Correct calculation														
	$33 \text{ m}^2$	[1] Final answer														
5(b)	$33m^2 + 33m^2 = 66m^2$	[1] Sum of cost per warehouse flor														
	$66 \times 25 = \text{£}1650$	[1] Total cost														
6(a)	<i>D, this is the only net where a cube with a lid is properly formed</i>	[1] Valid explanation														
6(b)	A & B have too many faces	[1] Valid explanation														
	C Would have an overlap	[1] Valid explanation														
7(a)	$P = 2(l + w)$	[1] Finding the perimeter of the field														
	$P = 2(40 + 100)$	[1] Correct calculation														
	$P = 280m$	[1] Total distance of fence required														
7(b)	$280 \times 5$	[1] Distance multiplied by cost														
	$\text{£}1400$	[1] Total cost														

END