| 2D Shapes Mark Scheme |  |  |  |
| :---: | :---: | :---: | :---: |
| 1 | Shape | Name |  |
|  | Shape 1 | Triangle |  |
|  | Shape 2 | Parallelogram |  |
|  | Shape 3 | Pentagon | [5] Mark for each correctly paired shape and name |
|  | 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 | $5 \times 3=15 \mathrm{~m}^{2}$ or $8 \times 3=24 \mathrm{~m}^{2}$ |  | [1] student must choose all of the first equations or all of the second equations |
|  | $5 \times 3=15 \mathrm{~m}^{2}$ or $2 \times 3=6 \mathrm{~m}^{2}$ |  | [1] student must choose all of the first equations or all of the second equations |
|  | $15 \mathrm{~m}^{2}+15 \mathrm{~m}^{2}=\mathbf{3 0} \mathrm{m}^{2}$ or $24 \mathrm{~m}^{2}+6 \mathrm{~m}^{2}=\mathbf{3 0} \mathbf{m}^{\mathbf{2}}$ |  | [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 |
|  | $22 \times 45=990 \mathrm{~cm}^{2}$ |  | [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 |
|  | $33 \mathrm{~m}^{2}$ |  | [1] Final answer |
| 5(b) | $33 \mathrm{~m}^{2}+33 \mathrm{~m}^{2}=66 \mathrm{~m}^{2}$ |  | [1] Sum of cost per warehouse flor |
|  | $66 \times 25=£ 1650$ |  | [1] Total cost |
| 6(a) | $D$, this is the only net where a cube with a lid is properly formed |  | [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 |
|  | $P=280 \mathrm{~m}$ |  | [1] Total distance of fence required |
| 7(b) | $280 \times 5$ |  | [1] Distance multiplied by cost |
|  | £1400 |  | [1] Total cost |

END

