## RUBRICS TEST MS - 6

## SECTION A

## Short Tasks

| Task number | Answer | Points |
| :---: | :--- | :---: |
| 1. | $\mathbf{4 0 \%}$ | 1 |
| 2. | $\mathbf{n} 2$ | 1 |
| 3. |  | 1 |
| 4. | $\mathbf{2 / 2 7}$ | 1 |
| 5. | $80^{\circ}$ | 1 |


| Meal Out | Rubric |  |
| :---: | :---: | :---: |
|  | points | section points |
| 1. Gives correct answer: $\mathbf{1 5 x}+\mathbf{1 2}(\mathbf{1 0}-\mathbf{x})=\mathbf{1 4 1}$ Selects $15 x+12 y=141$ | $3$ <br> (1) |  |
|  |  | 3 |
| 2. Gives correct answers: 7 and $\mathbf{3}$ | $2 \times 2$ |  |
| Correctly solves the equation : $\mathrm{x}=7$ | 2 |  |
| Tests that the solution $x=7$ satisfies the correct equation $15 \times 7+12 \times 3=141$ | 1 |  |
| Partial credit |  |  |
| Uses guess and check | (1) |  |
| Alternatively | or |  |
| Selects an incorrect equation and correctly solves it. | (1) | 7 |
| Total Points |  | 10 |


| Photographs | Rubric |  |
| :---: | :---: | :---: |
|  | points | section points |
| 1. Diagram 1: <br> The height of the smaller copy $=1 / 2$ of 6 inches $=\mathbf{3}$ inches <br> Uses proportional reasoning correctly: <br> Height $/$ width $=6 / 4=3 /$ width or Size of photo/Size of copy $=6 / 3=4 /$ width <br> Width $=\mathbf{2}$ inches <br> Accept verbal reference to scaling if answer correct. <br> Diagram 2: <br> The width of the smaller copy $=1 / 2$ of 6 inches $=\mathbf{3}$ inches <br> Uses proportional reasoning correctly: <br> Height $/$ width $=6 / 4=$ height $/ 3$ <br> Height $=41 / 2$ inches <br> Accept verbal reference to scaling if answer correct. | $\begin{array}{\|c} 2 \\ 1 \\ 1 \\ 1 \end{array}$ | 8 |
| 2. Gives correct answers: <br> Diagram 1: 6 inches wide, 6 inches high Diagram 2: 8.5 inches wide, 6 inches high | $1$ | 2 |
| Total Points |  | 10 |


| How Old Are They? | Rubric |  |
| :---: | :---: | :---: |
|  | points | section points |
| 1. Gives a correct expression: $\mathbf{w + 3}$ | 1 |  |
|  |  | 1 |
| 2. Gives a correct expression: $\mathbf{2}(\mathbf{w}+\mathbf{3})$ | 2 |  |
|  |  | 2 |
| 3 Gives correct answers: Will is $\mathbf{8}$ years old | 1 |  |
| Ben is $\mathbf{1 1}$ and Jan is $\mathbf{2 2}$ years old | $1$ |  |
| Shows correct work such as: |  |  |
| $\mathrm{w}+\mathrm{w}+3+2(\mathrm{w}+3)$ (allow follow through) |  |  |
| $4 \mathrm{w}+9=41$ | 2 |  |
| $4 \mathrm{w}=32$ |  | 4 |
| 4. Gives a correct answer: in $\mathbf{6}$ years time | 2 |  |
| Gives a correct explanation such as: |  |  |
| Will is 14 years younger than Jan so when Will is 14 Jan will be 28 . $14-8=6$. | 1 |  |
| Accept guess and check with correct calculations. Solves correct equation. |  | 3 |
| Total Points |  | 10 |


| Jane's T.V. | Rubric |  |
| :---: | :---: | :---: |
|  | points | section points |
| 1. Gives correct answer: Height of screen is $\mathbf{2 7 . 2}$ inches accept $\sqrt{ } 740$ <br> Shows work such as: $\begin{aligned} & 42^{2}=32^{2}+\mathrm{h}^{2} \\ & 1764=1024+\text { height squared } \end{aligned}$ <br> Height squared $=740$ <br> Height $=27.2$ inches approx 27 inches <br> All correct working. <br> Partially correct work. |  | 5 |
| 2. Gives correct answer: $32 \times 27.2=870.5$ square inches | 1 ft | 1 ft |
| 3. Gives correct answer: 51 inches <br> Shows work such as: $\begin{aligned} & S^{2}=40^{2}+32^{2}=1600+1024 \\ & S=\text { square root of } 2624 \\ & =51.2 \text { approximately } 51 \text { inches } \end{aligned}$ | 2 <br> 2 | 4 |
| Total Points |  | 10 |


|  | Lottery | Points | Section <br> points |
| :--- | :--- | :---: | :---: |
| 1. | May present an organized list <br> Or There are: <br> 5 numbers beginning with 1 <br> 4 numbers beginning with 2 <br> 3 numbers beginning with 3 <br> 2 numbers beginning with 4 <br> 1 number beginning with 5 <br> Altogether, there are 15 different numbers <br> Partial credit <br> An organized list with errors such as 2,1 and 1, 2 or 2,2. <br> An incorrect disorganized list | 5 |  |
| 2. | $(3)$ <br> The probability of choosing 1 out of 15 is <br> $1 \div 15$ <br> For every 15 players there is a cash prize of $\$ 10$ <br> The income is $\$ 15$, <br> so the lottery gains $\$ 5$. <br> It is a good money raiser. | 1 ft | 5 |
| Accept alternative sensible arguments. | 1 | 1 | 1 |


| Roman Mosaic | Points | Section points |
| :---: | :---: | :---: |
| The design is drawn inside a large circle. <br> The design has 8 lines of symmetry and rotational symmetry of order 8 . <br> In the centre is an 8 pointed star. <br> Each section of the star is a rhombus. <br> Each rhombus has two angles $360 / 8=45^{\circ}$ and $135^{\circ}$ <br> Between the points of the star are squares. <br> Between the squares are isosceles figures which are almost triangles with an angle of $180-2 \times 90-45=135^{\circ}$ <br> Accept alternative geometrical shapes/statements. | 1 1 1 1 1 2 1 1 2 | $\begin{gathered} \text { Max } \\ 10 \end{gathered}$ |
| Total |  | 10 |

