RUBRICS TEST MS - 6

SECTION A

Short Tasks

Task number	Answer	Points
1.	40%	1
2.	n ²	1
3.	4.3	1
4.	80°	1
5.	2/27	1

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

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

How Old Are They?		Ru	bric
		points	section points
1.	Gives a correct expression: w + 3	1	
			1
2.	Gives a correct expression: $2(w + 3)$	2	
			2
3	Gives correct answers: Will is 8 years old	1	
	Ben is 11 and Jan is 22 years old	1	
	Shows correct work such as:		
	w + w + 3 + 2(w + 3) (allow follow through)		
	4w + 9 = 41	2	
	4w = 32		4
4.	Gives a correct answer: in 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.		3
	Solves correct equation.		
l	Total Points		10

Jane's T.V.		Rubric	
	points	section points	
1. Gives correct answer: Height of screen is 27.2 inches accept	√740		
Shows work such as:			
$42^2 = 32^2 + h^2$ 1764 = 1024 + height squared			
Height squared = 740			
Height = 27.2 inches approx 27 inches			
All correct working.	3		
Partially correct work.	(1)	5	
2. Gives correct answer: 32 x 27.2 = 870.5 square inches	1 ft	_	
3. Gives correct answer: 51 inches	2		
Shows work such as:			
$S^2 = 40^2 + 32^2 = 1600 + 1024$			
S = square root of 2624			
= 51.2 approximately 51 inches	2		
		4	
	Total Points	10	

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

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