Answer Sheet: Maths Assessment Year 6 Term 2: Measurement



question	answer							marks	notes	
1. Solve prol				lation and conv	versi	on of	units of mea	sure, us	ing decim	al notation up to three
а	2.31							1		
b	4.256kg							1		
С	2.46km						1			
d	2.2kg						2	2 marks for the correct answer. 1 mark for an incorrect answer with only 1 mistake in calculating.		
										yth, mass, volume and n to up to three decimal
а	True True True False False						5	1 mark for each correct answer.		
	Millimetres			Centimetres		Metres				Award one mark for each box correctly
b	56mm			5.6cm		0.056m			6	
2		5mm		103.5cm		1.035m		_		completed.
	490)mm		49cm		0.49m				
			Mass in grams		Ma	Mass in kilograms				
	Bananas		1100g		1.1kg				Award one mark for	
С	Chicken		2700g		2.7kg			4		
	Rabbit		4250 g		4.25kg					
	Cauliflower		650g		0.6	0.65kg				each pair correctly
		Millilitres		Litres		$\overline{\Box}$				matched.
	i	i 600ml ii 1300ml iii 2750ml		0.61	+				3	
d	ii			+						
	iii			2.75						
	How many minutes are in three and a half 210 minutes hours?									
	How many minutes is 105 seconds? $1\frac{3}{4}$ or 1.75 minutes									
е	120 minutes is equivalent to how many hours?							5		
	How many minutes is equivalent to a 15 minutes quarter of an hour?									
	How many seconds are in 4 minutes? 240 seconds									



question		answer	marks	notes					
3. Convert between miles and kilometres.									
а	Distance in miles	Distance in k	Distance in kilometres						
	5 miles	8km							
	15 miles	24km	24km						
	20 miles	32km		1	5				
	35 miles	56km	56km						
	50 miles	80km	80km						
	Journey	Journey in miles	Journey ir						
b	Paris to Madrid	800 miles	1280km		3				
	Madrid to Berlin	1450 miles	2320km						
	Rome to Paris	650 miles	1040km						
4. Recognise that shapes with the same areas can have different perimeters and vice versa.									
а	same area: a, c, e same perimeter: a,	, b, f	2						
b	Any rectangle with an area of 10cm^2 , e.g. 10×1 ,					Allow the 2cm x 5cm rectangle in a different orientation.			
С	Square of 4cm x 4c	cm	1						
5. Recognis	5. Recognise when it is possible to use formulae for area and volume of shapes.								
a	V_2 x bh and $\frac{bh}{2}$					1 mark for each. 1 mark deducted for each incorrect answer.			
b i)	abc		1						
b ii)	2ab + 2ac + 2bc or 2(ab + ac + bc)								
6. Calculate	6. Calculate the area of parallelograms and triangles.								
a	66cm ²		1						
b	any parallelogram with area 40cm² e.g. base 8cm, height 5cm or base 10cm, height 4cm								
С	132cm ²								
d	20cm ²		2						



question	answer	marks	notes		
7. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm³) and cubic metres (m³), and extending to other units [for example, mm³ and km³].					
a	£8 as volume = 9600cm³	2	2 marks for a correct answer. 1 mark for correctly calculating the volume as 9 600 cm3		
d	Pool A has the smallest volume $\mathbf{A} = 192 \text{m}^3$, $B = 210 \text{m}^3$, $C = 216 \text{m}^3$	3	2 marks for a correct answer. 2 marks for an incorrect answer, but evidence that 2 of the pools' volume was calculated correctly. 1 mark for calculating the volume of 1 of the pools.		
c i)	4 mm	1			
c ii)	smaller	1			
d	ABDC	2	2 marks for correct answer. 1 mark if only 1 in the incorrect place (e.g. ACBD, BACD etc.) Note the volumes do not have to be calculated to find the answer.		
		Total 60			