Yr 8 Level 8 Practice Assessment Answers

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Α	Numbers & the number	Answer	Mark	Criteria
	system			
1(a)	$\frac{7}{15}$ as decimal	7÷15 = <u>0.46</u>	1	1
1(b)	0.12121212 as fraction	Let x = 0.1212121212 100x = 12.1212121212 99x = 12 $x = \frac{12}{99} = \frac{4}{33}$	1	1
В	Calculating		Mark	Criteria
2(a)	£35000 depreciation @ 15% after 3years	$£35000 \times 0.85^3 = £21494.38$	1	2

2(b)	Increased by 4% to £1.56 Find original	£1.56 ÷ 1.04 = £1.50				1	
3(a)	a)(i) 0.000043 in standard form	4.3 x 10 ⁻⁵				1	3
	(ii) 7 x 10 ⁴ as ordinary number	70000		1			
	b) 3.25 x 10 ⁵ x 2.4 x 10 ⁻¹	7.8 x 10 ⁴		1			
	Shape, Space and Measure					Mark	Criteria
4 (a)	Are two triangles congruent Explain	Yes Reason: ASA – 88 [°] , 63mm , 32 [°]				1	11
4 (b)	Work out angle x	107 ⁰		1			
	Work out length y	Scale fac	tor = 10 ÷ 6 = $1\frac{2}{3}$	1			
		y = 9 x 1	$\frac{2}{3}$ = 15cm	1			
5 (a)	Calculate length of side AB using trigonometry (3sf)	$\sin 38^{\circ} = \frac{AB}{8.5}$ AB = 8.5 x sin 38° = 5.23cm				2	12
5 (b)	Calculate size of angle x using trigonometry (1dp)	tan x = <u>5</u> 12.5 x = 21.8				2	
$c(\lambda)$	Data Handling			T		Mark	Criteria
6 (a)	Complete cf table		Speed (s mph)	cf			14
			40 < s ≤ 50	4			
			40 < s ≤ 60	23		1	
			40 < s ≤ 70	57			
			40 < s ≤ 80	84			
			40 < s ≤ 90	98			
			40 < s ≤ 100	100			

