Radley College: 13+ Maths Specimen Paper

School: Radley College

Subject: Maths

Level: 13+

Time: 60 mins

Type: Test Paper

Year in use: Since 2013 (Currently available for download from the school website)13+

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Q. ⬍	Answer ⬍	Solution ⬍
1.	(a) 545 (b) 672	
2.	(a) p + 6q (b) $20ab - 25b^2$	

3.	(a) $2/5$
	(b) $11/15$
	(c) $2/21$
	(d) $74/105$
4.	(a) £806
	(b) £1362
5.	(a) $20/3$
	(b) $3\frac{3}{3}$
	(c) $3/2$
6.	mean = 3.15
	median = 2
	mode = 3
7.	(a) x = 7 ; y = 19
	(b) (7 , 19)
	(c) The two equations does not intersect because there is no x and y values that will satisfy both equations.

8.	5.51
9.	57.98° (2 decimals) or 58.0° (1 decimal)
10.	$h = \frac{(c - b)}{a}$
11.	36°
12.	18
13.	74.95 cm^2
14.	(a) 35x + 4y = 204.48 (b) 35x + 10y = 242.40 (c) x = £5.12/hr ; y = £6.32/hrs

Radley College: 13+ Maths Scholarship Paper I 2014

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Type: Scholarship Paper 1

Year in use: 2014

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Q	Answer	Solution
1.	(a) (i) 448.088 (ii) 8.02 (b) (i) 1/2 (ii) 8/5 (iii) 27/7	
2.	(a) 346,000 (b) 7,100 (c) 3,800 (d) 200	

2.	(a) 346,000 (b) 7,100 (c) 3,800 (d) 200
3.	(a) (i) $x^2 + 6xy + 9y^2$ (ii) $54a^3 + 2b^2$ (b) (i) $7x^2y(4x + 3y^2)$ (ii) $3(a + 4b)(a - 4b)$ (iii) $(x - 3)(x - 6)$ (c) (i) $(a - b)/2c$ (ii) x^2/y^5
4.	(a) $x = 7$ (b) $x = 6$ (c) $x = 5$ (d) $x = (ad - bc)/(a - c)$
5.	(a) $x = 5$, $y = -1$ (b) $x = 30$, $y = 18$
6.	(a) $x = 2$ or -7 (b) $x = 5/2$ or $3/2$ (c) $x = 7$ or $17/5$