

The Perse Upper School: 13+ Maths Specimen Paper 1 (2012)



School: Perse Upper School

Subject: Maths

Level: 13+

Time: 60 mins

Type: Specimen Paper 1

Year in use: Since 2012 (Currently available for download on the school website.

Last checked late 2014)

Q. ▾	Answer ▾	Mark ▾	Solution ▾
1.	308356	2	
2.	(a) m^9 (b) $x + 31$	1 2	
3.	24	2	

4.	(a) 200 (b) $2^2 \times 3 \times 5^2$	2 3
5.	2.95×10^5	2
6.	12	3
7.	36.432	3
8.	(i) -27 (ii) -24 (iii) 144	1 1 2
9.	(i) $6 \frac{1}{4}$ or $\frac{25}{4}$ (ii) $2 \frac{1}{2}$ or $\frac{5}{2}$	1 2
10.	(i) 84° (ii) 84° (iii) 96°	2 2 2
11.	(a) 1000 (b) 19% (c) 11:9	2 2 2

12.	13	2
13.	9/40	2
14.	78	3
15.	<p>(a) $a + 4b + c$</p> <p>(i)</p>  <p>(b)</p> 	<p>2</p> <p>4</p> <p>5</p>
16.	<p>(a) $1 \frac{1}{4}$ or $\frac{5}{4}$</p> <p>(b) $\frac{13}{20}$</p> <p>(c) $\frac{5}{9}$</p>	<p>2</p> <p>3</p> <p>3</p>
17.	<p>(a) 26</p> <p>(b) 125</p> <p>(c) 144</p>	<p>1</p> <p>2</p> <p>2</p>

18.	(a) 2 (b) $16y^2$ (c) $7x/12$	2 2 2
19.	(a) 251.2 (b) 50	2 3
20.	(a) $y = -5$ (b) $y = x$ (c) $x = 0$	1 1 1
21.	(i) 13 (ii) 4 (iii) $2\frac{1}{6}$ or $13/6$	2 2 3