

**MATHEMATICS MAIN PAPER FOR 2019 ENTRY TEST 2 – ANSWERS**

**1 mark for each correct answer. Total 60 marks.**

ANSWER	
1a	<b>1123</b>
1b	<b>1476</b>
1c	<b>53</b>
2a	<b><math>5\frac{5}{12}</math> or <math>\frac{65}{12}</math></b> or equivalent fraction or recurring decimal
2b	<b><math>\frac{19}{40}</math></b> or equivalent fraction or decimal
2c	<b><math>2\frac{1}{2}</math></b> or equivalent fraction or decimal

ANSWER	
3a	<b>527</b>
3b	<b>2.625</b> must be decimal
3c	<b><math>1\frac{7}{12}</math></b> or equivalent fraction or recurring decimal
4a	<b>268.1</b>
4b	<b><math>0.06\text{m}^2</math></b> accept 0.06 or $\frac{3}{50}$ or equivalent.
4c	<b><math>150\text{m}^2</math></b>

ANSWER									
5	<table border="1"> <thead> <tr> <th><math>n</math></th> <th><math>4n-3</math></th> </tr> </thead> <tbody> <tr> <td>2</td> <td>5</td> </tr> <tr> <td>12</td> <td><b>45</b></td> </tr> <tr> <td><b>21</b></td> <td>81</td> </tr> </tbody> </table>	$n$	$4n-3$	2	5	12	<b>45</b>	<b>21</b>	81
	$n$	$4n-3$							
	2	5							
	12	<b>45</b>							
<b>21</b>	81								
5a	<b><math>n = 51</math></b>								
5b	<b>81</b>								
6a	<b>0.0298</b>								
6b	<b><math>\frac{1}{3}</math></b>								

	ANSWER
7a	$A+B = 4.17$
7b	$0.5A-2B = 0.535$
8a	<b>2</b>
8b	<b>5</b>
9a	<b>51</b>
9b	<b>£5.75</b>

	ANSWER
10a	<b>39</b>
10b	<b>24</b>
10c	$b = -2$ $c - b = 9$
11a	<b>750g</b>
11b	<b>1125g</b>

	ANSWER
12a	<b>57 inches</b>
12b	<b>7920 feet</b>
13a	<b>1249</b>
13b	<b>1975</b>
13c	<b>316</b>

	ANSWER
14	( 5 , -3 )  ( 3 , 5 )
15a	7
15b	24½

	ANSWER
16a	Area = <b>100cm<sup>2</sup></b> .....
16b	Volume = <b>1000cm<sup>3</sup></b> .....
17a	<b>Sometimes</b> ..... true
17b	<b>Sometimes</b> ..... true
17c	<b>Always</b> ..... true
17d	<b>Never</b> ..... true

	ANSWER
18	40
19a	A =  <b>135°</b> ..... Units not needed
19b	B =  <b>22°</b> ..... Units not needed

ANSWER	
20a	<b>137</b> Units not needed
20b	<b>17:13</b> or equivalent such as 5:13pm but not 5:13
20c	<b>16:55</b> or equivalent (see 20b)
20d	<b>15:58</b> or equivalent (see 20b)

ANSWER	
21a	<b>6°C</b> Units not needed
21b	<b>15°C</b> Units not needed
21c	<b>Between 11:00 and 13:00</b>
21d	<b>57.2F</b> Units not needed

ANSWER	
22a	Answer <b>224</b> .....
22b	Starting number <b>0 or 15</b> ..... Accept either 0 or 15 or both
23	One orange costs <b>35 pence</b> .....  One apple costs <b>20 pence</b> .....