

**MATHEMATICS MAIN PAPER FOR 2022 ENTRY TEST 2 – ANSWERS**

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

	ANSWER
1a	<b>4422</b>
1b	<b>4218</b>
1c	<b>58</b>
2a	$\frac{27}{20}$ or $1\frac{7}{20}$ or <b>1.35</b> or equivalent
2b	$\frac{29}{42}$ or equivalent
2c	<b>8</b>
2d	$7\frac{1}{2}$ or equivalent

	ANSWER
3a	$\frac{11}{16}$ or equivalent
3b	$\frac{31}{40}$ or equivalent
4a	<b>3120</b> .....mm
4b	X = ..... metres  Y = ..... metres  or X = 20 Y = 25

	ANSWER
5a	<b>11</b>
5b	<b>21</b>
5c	<b>3</b> ..... Goals  <b>7</b> ..... Penalties
6i	<b>2</b>
6ii	<b>1</b>

ANSWER											
7i	<table border="1"> <thead> <tr> <th><math>n</math></th> <th><math>6n-2</math></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>4</td> </tr> <tr> <td>2</td> <td>10</td> </tr> <tr> <td>8</td> <td><b>46</b></td> </tr> <tr> <td><b>15</b></td> <td>88</td> </tr> </tbody> </table>	$n$	$6n-2$	1	4	2	10	8	<b>46</b>	<b>15</b>	88
	$n$	$6n-2$									
	1	4									
	2	10									
	8	<b>46</b>									
<b>15</b>	88										

7ii **124**

8a **75**

8b **80**

8c **-3**

ANSWER	
9a	<b>354</b>
9b	<b>315</b>
9c	<b>678</b>
9d	<b>21</b>
10a	<b>28</b> .....km
10b	<b>7½</b> .....litres or 7.5

ANSWER	
11a	<b>91</b>
11b	<b>14</b>
12a	Y = ..... <b>75</b> ..... degrees
12b	X = ..... <b>18</b> ..... degrees
12c	a = ..... <b>72</b> ..... degrees

	ANSWER
13a	<b>False</b> ..... <i>True or False</i>
13b	<b>True</b> ..... <i>True or False</i>
13c	<b>False</b> ..... <i>True or False</i>
13d	<b>False</b> ..... <i>True or False</i>
14a	£ <b>48</b> .....
14b	£ <b>48.96</b> .....

	ANSWER
15a	<b>57</b>
15b	<b>10</b>
15c	£ <b>209</b> .....
16a	£ <b>72</b> .....
16b	<b>400</b>

	ANSWER
17	<b>B</b>
18a	( <b>8</b> <b>0</b> ) (.....,.....)
18b	( <b>2</b> <b>-6</b> ) (.....,.....)

ANSWER	
19a	<p><b>2</b></p> <p>.....</p> <p>hours and</p> <p><b>34</b></p> <p>.....</p> <p>minutes</p>
19b	<p><b>3</b></p> <p>.....</p> <p>minutes</p>
19c	<p><b>6</b></p> <p>.....</p> <p>hours and</p> <p><b>39</b></p> <p>.....</p> <p>minutes</p>
19d	<p><b>40</b></p> <p>.....</p> <p>minutes</p>

ANSWER	
20a	X = ..... <b>8</b> .....
20b	Y = ..... <b>2½</b> .....
20c	<p>Z = ..... <b>5</b> .....</p> <p>also allow</p> <p>z = 0</p>

ANSWER	
21a	<b>9</b>
21b	<b>6</b>