

**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 1.35 or equivalent
2b	$\frac{29}{42}$ or equivalent
2c	<b>8</b>
2d	$7\frac{1}{2}$ or equivalent

ANSWER	
3a	$1\frac{11}{16}$ or equivalent
3b	$3\frac{1}{40}$ or equivalent
4a	<b>3120</b> mm
4b	X = .....  metres  Y = .....  metres  or X = 20 Y = 25
5a	<b>11</b>
5b	<b>21</b>
5c	3 ..... Goals  7 ..... Penalties
6i	<b>2</b>
6ii	<b>1</b>

## ANSWER

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## ANSWER

7i

$n$	$6n-2$
1	4
2	10
8	46
<b>15</b>	88

7ii

**124**

8a

**75**

8b

**80**

8c

**-3**

9a

**354**

9b

**315**

9c

**678**

9d

**21**

10a

**28**.....km

10b

**7½**.....litres  
or 7.5

11a

**91**

11b

**14**

12a

**Y = .....75**  
degrees

12b

**X = .....18**  
degrees

12c

**a = .....72**  
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

2

hours and

34

minutes

3

minutes

6

hours and

39

minutes

40

minutes

ANSWER

20a

$$X = \dots \dots \dots$$

8

20b

$$Y = \dots \dots \dots$$

2\frac{1}{2}

$$Z = \dots \dots \dots$$

5

20c

also allow  
 $z = 0$

ANSWER

21a

9

21b

6