

**MATHEMATICS MAIN PAPER FOR 2018 ENTRY TEST 2 – ANSWERS**

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

	ANSWER
1a	<b>522</b>
1b	<b>4011</b>
1c	<b>1238</b>
2a	<b>= 39</b> any of: 31 + 8 32 + 7 34 + 5 35 + 4 37 + 2 38 + 1
2b	<b>6</b>

	ANSWER
3a	<b>1431</b>
3b	<b>159</b>
3c	<b>-8</b> Must be clearly negative
4a	<b>0.875</b>
4b	<b>7000</b>
5a	<b>2320</b>
5b	<b>137(cm)</b> units not needed

	$n$	$3n-7$
	5	8
6a	19	<b>50</b>
	<b>29</b>	80

  

	ANSWER
6b	<b><math>2n + 5</math></b>
6c	<b><math>3n - 7</math></b>
6d	$n = \dots 12 \dots$

	ANSWER
7a	64,000
7b	64,400
7c	64,400

	ANSWER
9a	( <u>3</u> , <u>2</u> )
9b	( <u>3</u> , <u>-2</u> )
9c	( <u>-1</u> , <u>3</u> )
9d	( <u>-1</u> , <u>-3</u> )

	ANSWER
10a	4
10b	3, 6, 9
10c	6
10d	5, 7
10e	1

8a

$$\begin{array}{|c|} \hline 4 \\ \hline \end{array} \begin{array}{|c|} \hline 3 \\ \hline \end{array} = \begin{array}{|c|c|} \hline 8 & 1 \\ \hline \end{array}$$

8b

$$\begin{array}{|c|} \hline 3 \\ \hline \end{array} \begin{array}{|c|} \hline 4 \\ \hline \end{array} = \begin{array}{|c|c|} \hline 6 & 4 \\ \hline \end{array}$$

8c

$$\begin{array}{|c|} \hline 3 \\ \hline \end{array} \begin{array}{|c|} \hline 5 \\ \hline \end{array} = \begin{array}{|c|c|c|} \hline 1 & 2 & 5 \\ \hline \end{array}$$

	ANSWER
11a	$\frac{7}{10}$ or equivalent
11b	$\frac{13}{14}$ or equivalent
11c	$\frac{1}{2}$
11d	$\frac{11}{16}$ or equivalent
11e	15
12	<p>0.53 &gt;</p> <p>0.529 &gt;</p> <p>0.503 &gt;</p> <p>0.5003 &gt;</p>

	ANSWER
13a	32
13b	57
13c	15
13d	$5n-1$ (or $-1+5n$ )
13e	$7n+3$ (or $3+7n$ )

	ANSWER
14a	£100 (£ not needed)
14b	£80 (£ not needed)
14c	£112 (£ not needed)
14d	12% (% not needed)

	ANSWER
15a	54
15b	54
15c	21.28 (or 2128) (no alternatives)
15d	00.04 or equivalent (not 1204)

	ANSWER
16a	Sometimes
16b	Always
16c	Never

	ANSWER
17	640
18a	5
18b	36

	ANSWER
19a	13.1
19b	17.3
19c	29.45