

MATHEMATICS MAIN PAPER FOR 2018 ENTRY TEST 2 – ANSWERS

1 mark for each correct answer, Total 60 marks.

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

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

	n	$3n-7$
	5	8
6a	19	50
	29	80

	ANSWER
6b	$2n + 5$
6c	$3n - 7$
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 ></p> <p>0.529 ></p> <p>0.503 ></p> <p>0.5003 ></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