



# BJHS - Numeracy Newsletter - 3

## Division

Welcome to the third BJHS Numeracy Newsletter. This newsletter aims to promote numeracy skills amongst students and prepare them for using maths in everyday life.

As this newsletter is about division, you will need to know your times tables.

For more numeracy information, visit the school website and go to the Numeracy page where you will find ideas, all these newsletters and links to BBC Skillswise.

NAME: \_\_\_\_\_

X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

## Simple Division Example

Step 1: Write it out.

1	2	÷	3
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Step 2: If you don't know your tables, use the table square ...

X	1	2	3	4
1	1	2	3	4
2	2	4	6	8
3	3	6	9	12
4	4	8	12	16

Step 3: Read across the 3 times table until you get to 12 ...

X	1	2	3	4
1	1	2	3	4
2	2	4	6	8
3	3	6	9	12
4	4	8	12	16

Step 4: Read up from 12 and the answer is 4 because  $3 \times 4 = 12$

X	1	2	3	4
1	1	2	3	4
2	2	4	6	8
3	3	6	9	12
4	4	8	12	16

These questions are suitable from Primary upwards, but anyone can try them. Can you get the answers?

1.  $14 \div 2$

2.  $32 \div 4$

3.  $18 \div 3$

4.  $24 \div 6$

5.  $49 \div 7$

6.  $64 \div 8$

## Division Example 2: for bigger numbers outside the times tables

**Step 1:**  
Write it out like this.

$$\begin{array}{r|rrr} 3 & 9 & 4 & 5 \end{array}$$

**Step 2:**  
First, divide the hundreds. 3 goes into 9 exactly 3 times.

$$\begin{array}{c} \text{H} \\ 3 \\ \hline 3 \end{array} \begin{array}{r|rrr} 9 & 4 & 5 \end{array}$$

**Step 3:**  
Now divide the tens. 3 goes into 4 once with 1 left over. The number leftover goes into the units column.

$$\begin{array}{c} \text{H} & \text{T} & \text{U} \\ 3 & 1 & \\ \hline 3 & 9 & 4 \end{array} \begin{array}{r|rr} 15 & 5 \end{array}$$

**Step 4:**  
Now divide the units. We now have 15 units, and divided by 3 the answer is 5.

$$\begin{array}{c} \text{H} & \text{T} & \text{U} \\ 3 & 1 & 5 \\ \hline 3 & 9 & 4 \end{array} \begin{array}{r|rr} 15 & 5 \end{array}$$

These questions are suitable from Upper Primary upwards, but anyone can try them. Can you get the answers?

1.

$$\begin{array}{r|rrr} 5 & 5 & 7 & 5 \end{array}$$

2.

$$\begin{array}{r|rrr} 4 & 9 & 2 & 4 \end{array}$$

3.

$$\begin{array}{r|rrr} 8 & 9 & 4 & 4 \end{array}$$

4.

$$\begin{array}{r|rrr} 7 & 2 & 1 & 7 \end{array}$$

5.

$$\begin{array}{r|rrr} 12 & 6 & 1 & 2 \end{array}$$

6.

$$\begin{array}{r|rrr} 6 & 7 & 2 & 3 \end{array}$$

The last two questions above bring extra problems! In 5. we are dividing by a double digit number. It's on the table square, but to go further we need to learn long multiplication. In 6. we have a remainder. In Primary we might write  $r3$  but by Secondary we should give the answer as a decimal.

Please could you work through this newsletter with your child and if you hand it back completed (as much as possible), we will enter you into a prize draw. The winner will receive a £10 Amazon gift voucher!

$$\begin{array}{r|rrr} 2 & 5 & 7 & 8 & 0 \end{array}$$