

Number and Algebra mixed part 2

Whether you are a parent, teacher or home school educator, we've compiled examples of activities, games and puzzles which can be used to support the learning of algebra.

These examples are taken from the 'Number and Algebra mixed' packs found in our SMILE resource collection. The mathematical demand increases as you work through the packs. There are lots more ideas in the complete packs, which can be downloaded at <https://www.stem.org.uk/rxzed>

Answers to cards can be found at <https://www.stem.org.uk/rxxo5>

Smile Worksheet **1635**

The Key to Success

Use these keys only

- + × =

2 3 8

in any order.

3	-	2	=	7
2	+	2	=	4
				5
				6
				10
				11
				16
				24

Use these keys only

- + × =

3 5 9

in any order.

				0
				4
				8
				12
				14
				15
				27
				45

Use these keys only

- + × =

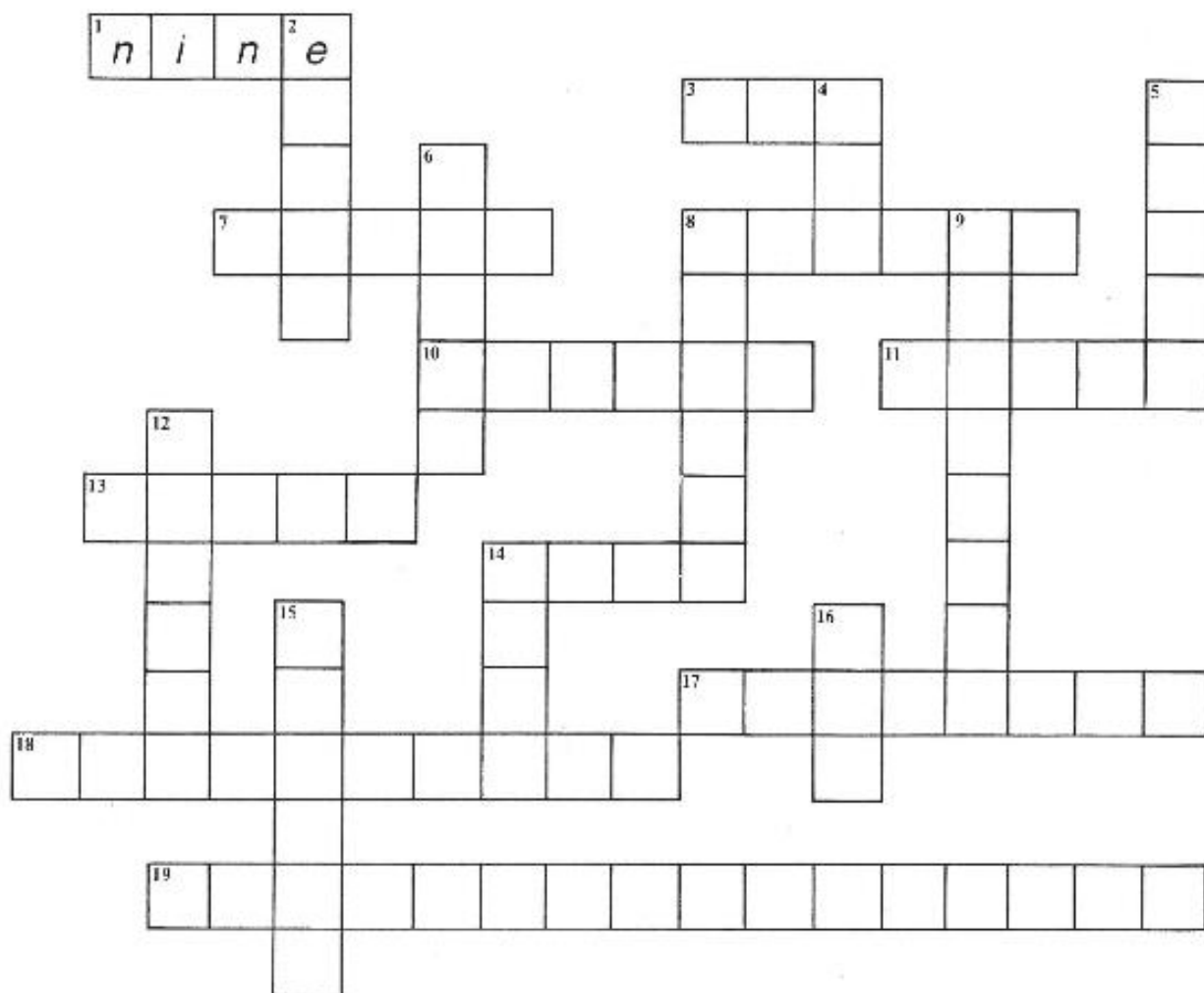
3 6 7

in any order.

				9
				1
				12
				13
				18
				27
				36
				42

Crossword

Smile Worksheet 1813



→
A c r o s s

↓
D
o
w
n

1. Three times three
3. One pair
7. Take away seventeen from twenty
8. Four times five
10. $33 \div 3$
11. Twelve fives
13. Double 25
14. Half of ten
17. \triangle
18. Centimetres in a metre (two words)
19. 30mm (two words)

2. Sixteen divided by two
4. One less than two
5. Eight times five
6. The number of days in a week
8. One dozen
9. Twenty minus seven
12. ●
14. $7 + 9 - 3 + 10 - 20 + 1$
15. □
16. Four plus two

Plus and Minus Grids

In this grid there are **3 additions** and **2 subtractions**.

3	8	7	2	5
9	4	1	5	6
12	0	5	2	3

$$\begin{aligned}
 3 + 9 &= 12 \\
 7 - 2 &= 5 \\
 4 + 1 &= 5 \\
 1 + 5 &= 6 \\
 5 - 2 &= 3
 \end{aligned}$$

In the following two grids, draw rings around sets of three numbers to make additions and subtractions. You can go across \rightarrow or down \downarrow

1. This one has **5 additions** and **2 subtractions**.

4	2	7	9	6
3	8	2	1	7
3	5	9	10	13
6	3	6	1	5

$$\begin{aligned}
 \square + \square &= \square \\
 \square + \square &= \square \\
 \square + \square &= \square \\
 \square + \square &= \square \\
 \square + \square &= \square \\
 \square - \square &= \square \\
 \square - \square &= \square
 \end{aligned}$$

2. This one has **4 additions** and **3 subtractions**.

6	0	9	3	2	1
5	4	8	12	6	15
1	3	11	2	7	8
3	6	0	8	13	7
0	4	4	10	2	4

$$\begin{aligned}
 \square + \square &= \square \\
 \square + \square &= \square \\
 \square + \square &= \square \\
 \square + \square &= \square \\
 \square - \square &= \square \\
 \square - \square &= \square \\
 \square - \square &= \square
 \end{aligned}$$

3. Fill in this grid to make your own puzzle.

This one has **additions** and **subtractions**.

- Copy the grid and ask somebody to find the additions and subtractions.

Calculator Flags

Fill in the flags to show what to add or subtract. *Two are done for you.*

