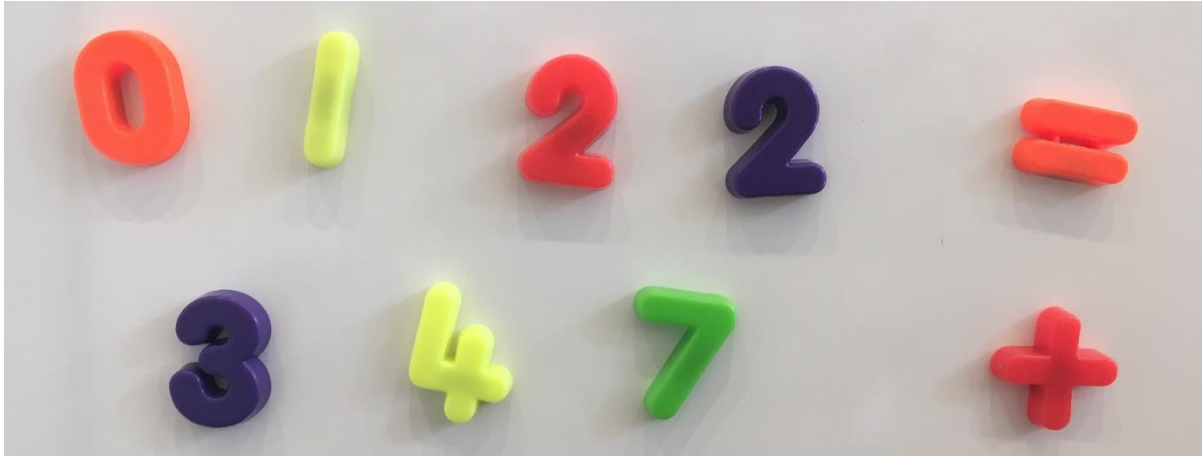# Fridge Magnet Arithmetic Challenge 3

Challenge: (Without using a calculator) form as many correct number sentences as you can from the following set of fridge magnets:

Example:

Rules: You can only use each symbol once (except you have two 2s available to you)

You can use the + symbol as a + or a x

We will consider: $3 + 24 = 27$, $24 + 3 = 27$, $27 = 3 + 24$ and $27 = 24 + 3$ to be the *same* number sentence.

Rating:

1 to 4:	Good start
5 to 10:	Doing well
11 to 16:	Highly commended
17 or more:	Excellent!

Fridge Magnet Arithmetic Challenge 3

So far I have found 23.

(Nice going if you have found any that aren't on the list below)

1. $0 + 2 = 2$
2. $1 + 2 = 3$
3. $1 + 3 = 4$
4. $2 + 2 = 4$
5. $3 + 4 = 7$
6. $3 + 7 = 10$
7. $1 + 23 = 4$
8. $21 + 3 = 4$
9. $3 + 24 = 7$
10. $23 + 4 = 7$
11. $3 + 17 = 20$
12. $13 + 7 = 20$
13. $24 + 7 = 31$
14. $4 + 27 = 31$
15. $72 + 32 = 104$

[If you found this one, I feel that you deserve a bonus point for using *all* of the characters.]

16. $1 \times 2 = 2$
17. $2 \times 2 = 4$
18. $2 \times 7 = 14$
19. $3 \times 7 = 21$
20. $21 \times 2 = 42$
21. $2 \times 2 = 4$
22. $2 \times 7 = 14$
23. $3 \times 7 = 21$