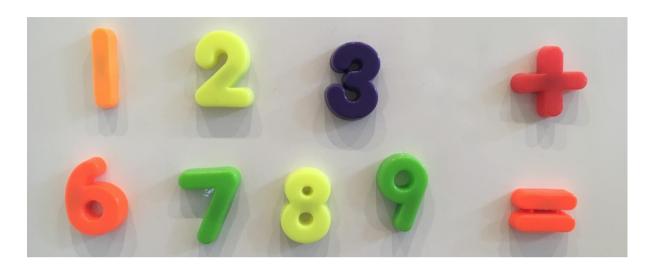# Fridge Magnet Arithmetic Challenge 2

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.

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

We will consider $3 + 9 = 12$, $9 + 3 = 12$, $12 = 3 + 9$ and $12 = 9 + 3$ to be the *same* number sentence.

Rating:

1 to 8:	Good start
9 to 16:	Doing well
17 to 24:	Highly commended
25 or more:	Excellent!

Fridge Magnet Arithmetic Challenge 2

So far I have found 33. There are far more than I first thought there would be.

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

1. $1 + 2 = 3$
2. $1 + 6 = 7$
3. $1 + 7 = 8$
4. $1 + 8 = 9$
5. $2 + 6 = 8$
6. $2 + 7 = 9$
7. $3 + 6 = 9$
8. $3 + 9 = 12$
9. $3 + 69 = 72$
10. $63 + 9 = 72$
11. $3 + 79 = 82$
12. $73 + 9 = 82$
13. $6 + 7 = 13$
14. $6 + 17 = 23$
15. $16 + 7 = 23$
16. $6 + 87 = 93$
17. $86 + 7 = 93$
18. $7 + 9 = 16$
19. $7 + 19 = 26$
20. $17 + 9 = 26$
21. $7 + 29 = 36$
22. $27 + 9 = 36$
23. $8 + 9 = 17$
24. $28 + 9 = 37$
25. $2 \times 3 = 6$
26. $2 \times 8 = 16$
27. $2 \times 9 = 18$
28. $3 \times 6 = 18$
29. $3 \times 9 = 27$
30. $7 \times 9 = 63$
31. $8 \times 9 = 72$
32. $8 \times 12 = 96$
33. $8 \times 37 = 296$

Worksheet created by Tim Elton, 2020   MAGDALEN COLLEGE SCHOOL
INDEPENDENT DAY SCHOOL FOR BOYS 7 - 18 AND SIXTH FORM GIRLS