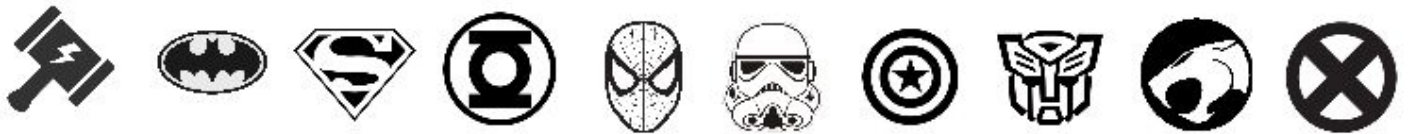





Superheroes
KS3
Thursday - Mathematics




Break the code





The ten symbols below each stand for one of the digits:
 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 but not in that order.









Use the clues below to work out what number each symbol stands for.




a.)  +  = 




b.)  x  = 

c.)  +  +  = 

d.)  -  = 

e.)  +  = 

f.)  x  = 

g.)  -  = 

Now see if you can solve these algebraic equations:

Stage 1:

Find x if

1. $3x + 6 = 21$
2. $7x + 11 = 67$
3. $5x + 4 = 24$
4. $9x - 2 = 25$
5. $11x - 14 = 30$
6. $10x - 7 = 53$



7. $12x + 11 = 155$

8. $15x - 14 = 61$

9. $13x + 25 = 90$

Stage 2:

1. $2x + 4 = 3x + 1$

2. $10x + 8 = 4x + 38$

3. $7x - 3 = 3x + 25$

4. $11x + 5 = 9x + 21$

5. $4 + 11x = x + 9$