



**SOLVING  
MULTI-STEP  
EQUATIONS  
MYSTERY  
TIER B/C**

Congratulations, Agents! You have been selected to help investigate and decode a mystery number. To start your mission, you have been granted access to the top - secret files and YOUR MISSION is: Solve the following problems on a separate sheet of paper and then write your answers in the answer column. Then, use the Code Table to find the corresponding code for each answer. Once you have all the codes, add them together to get the mystery number.

**PROBLEMS**

1)  $8h - 4 = 8$

2)  $6e + 17 = 41$

3)  $72 + 2e = 12$

4)  $-5(2w + 1) = 25$

5)  $\frac{3}{5}x - 2 = 16$

6)  $\frac{2}{3}x + 6 = 52$

7)  $\frac{x}{5} - 8 = 12$

8)  $4t - 3 - 3t = -5$

YOUR ANSWER

CODE from \_\_\_\_\_

ANSWERS	CODES
$\frac{2}{3}$	137
2	52
$10\frac{4}{5}$	56
-30	40
100	185
-4	13
8	32
$1\frac{1}{7}$	73
$1\frac{1}{2}$	55
30	74
-3	12
69	163
4	33
-2	44

1) \_\_\_\_\_

2) \_\_\_\_\_

3) \_\_\_\_\_

4) \_\_\_\_\_

5) \_\_\_\_\_

6) \_\_\_\_\_

7) \_\_\_\_\_

8) \_\_\_\_\_

Add up your codes to get your mystery number: \_\_\_\_\_

*Is the sum of your digits 12? It should be!*