



**SOLVING
MULTI-STEP
EQUATIONS
MYSTERY
TIER A**

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

YOUR ANSWER

CODE from _____

- 1) $8h - 4 = 8$
- 2) $6e + 17 = 41$
- 3) $2e + 72 = 12$
- 4) $2b - 9 = 83$
- 5) $\frac{3}{5}x - 2 = 16$
- 6) $\frac{2}{3}x + 6 = 52$
- 7) $\frac{x}{5} - 8 = -12$
- 8) $3w + 1 - 2w = 3$

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____
- 8) _____

ANSWERS	CODES
-30	137
92	52
54	56
$1\frac{1}{2}$	40
-20	185
100	13
30	32
20	73
$\frac{2}{3}$	55
69	74
$\frac{2}{5}$	12
46	163
2	33
4	44

Add up your codes to get your mystery number: _____

Is the sum of your digits 15? It should be!