

LO - To be able to solve linear equations to find the value of 'x' (show workings & write answers on the sheet)

Videos and worksheets on the topic can be found at [www.m4ths.com](http://www.m4ths.com)

Name \_\_\_\_\_ Date \_\_\_\_\_

### Level 5/6

1.  $2x + 4 = 10$

Step 1 \_\_\_\_\_

Step 2 \_\_\_\_\_

Step 3 \_\_\_\_\_

Answer  $x =$  \_\_\_\_\_

2.  $3x - 1 = 11$

Step 1 \_\_\_\_\_

Step 2 \_\_\_\_\_

Step 3 \_\_\_\_\_

Answer  $x =$  \_\_\_\_\_

3.  $5x + 2 = 27$

4.  $6x + 1 - x = 21$

5.  $2x + 2 - 3 = 9$

6.  $10x - 6 = 4 + 10$

7.  $3x + x + 2 = 12$

8.  $5x - 5 = 0$

9.  $-3x + 5 = 2$

10.  $x + x + x = 3$

### Level 6/7

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

Step 1 \_\_\_\_\_

Step 2 \_\_\_\_\_

Step 3 \_\_\_\_\_

Step 4 \_\_\_\_\_

Answer  $x =$  \_\_\_\_\_

2.  $3x + 6 = 10 - x$

Step 1 \_\_\_\_\_

Step 2 \_\_\_\_\_

Step 3 \_\_\_\_\_

Step 4 \_\_\_\_\_

Answer  $x =$  \_\_\_\_\_

3.  $5x - 3 = 2x + 6$

4.  $x + 4 = 3x - 6$

5.  $3x + x = x + 12$

6.  $2x - 5 = 3 - 2x$

7.  $3 + 2x = 3x - 10$

8.  $-x + 2 = 4x - 8$

9.  $x + x + 3 = 3$

10.  $3x + 2x = 1 - 2x$

### Extension Exercises

1.  $\frac{1}{2}x + 2 = 4$

2.  $2(x-2) = 6$

3.  $-2x + 6 = 3 + 4x$

4.  $\frac{1}{4}x - 3 = 5$

5.  $-\frac{1}{2}y + 4 = y - 2$

### My Notes and Rules

Use this space to write rules, learning points and try and articulate how you could explain to people the methods required to solve equations like these

### Teacher Feedback

WWW (what went well) \_\_\_\_\_

EBI (even better if) \_\_\_\_\_

Grade/Level \_\_\_\_\_

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Answers

**Section 5/6**

1. 3
2. 4
3. 5
4. 4
5. 5
6. 2
7. 2.5 (or 5/2)
8. 1
9. 1
10. 1

**Section 6/7**

1. 1
2. 1
3. 3
4. 5
5. 4
6. 2
7. 13
8. 2
9. 0

**Extension**

1. 4
2. 5
3.  $\frac{1}{2}$  (or 0.5)
4. 32
5.  $y = 4$

**Things to look for in the box.**

Pupils using the correct mathematical terminology such as 'inverse'

Pupils able to structure a simple algorithm for others to follow

Clear and concise presentation

**Teacher Feedback**

WWW (what went well) \_\_\_\_\_

EBI (even better if) \_\_\_\_\_

Grade/Level \_\_\_\_\_