# LINEAR EQUATIONS WITH NON-UNIT

Answer all questions. Show your working.

### MAIN TASK

1.2x/3 + 4 = 8	2. $3x/4 - 2 = 5$	3. $4x/5 + 1 = 9$
4. $5x/2 - 3 = 7$	5. $6x/7 + 2 = 8$	6. $7x/3 - 4 = 10$
7. $8x/5 + 3 = 11$	8.9x/4 - 5 = 13	9. $10x/6 + 6 = 16$
10.2x/5 + 7 = 11	11. $3x/2 - 1 = 8$	12. $4x/3 + 5 = 13$
13. $5x/4 - 2 = 8$	14. $6x/5 + 4 = 16$	15. $7x/2 - 6 = 15$
16. $8x/7 + 5 = 13$	17.9x/3 - 7 = 14	18. $10x/4 + 8 = 18$
19.2x/7 + 9 = 11	20. $3x/5 - 4 = 5$	21. $4x/2 + 6 = 14$
22. $5x/3 - 3 = 7$	23. $6x/4 + 7 = 16$	24. $7x/5 - 5 = 9$
25. $8x/6 + 4 = 12$	26. $9x/2 - 8 = 19$	27. $10x/3 + 9 = 19$
28. $2x/4 - 1 = 4$	29. $3x/6 + 10 = 13$	30. $4x/7 - 2 = 6$

## **MASTERY OF MATHEMATICS**



1. A rectangle's length is 2x/3 + 4 cm and its width is 5 cm. The perimeter is 30 cm.

3. The sum of 4x/5 and 1 is the same as 9.

5. A shop sells 6x/7 + 2 items in a day and makes £8 per item. Total sales are £64.

7. A book has 8x/5 + 3 pages. After reading 11 p ages, 5 pages are left.

9. A recipe uses 10x/6 + 6 cups of flour. The total flour used is 16 cups.

2. A number is multiplied by 3/4, then 2 is subtracted. The result is 5.

4. A train travels at a speed of 5x/2 - 3 km/h for 2 hours and covers 14 km.

6. A triangle's base is 7x/3 - 4 cm and its height is 6 cm. The area is 30 cm<sup>2</sup>.

8. A bag contains 9x/4 - 5 red marbles and 13 bl ue marbles. The total is 26 marbles.

10. A car travels 2x/5 + 7 km in one hour. The tot al distance is 11 km.

# LINEAR EQUATIONS WITH NON-UNIT

#### MAIN TASK

1	2x/3 + 4 = 8	$\mathbf{x} = 6$
2	3x/4 - 2 = 5	x = 12
3	4x/5 + 1 = 9	x = 10
4	5x/2 - 3 = 7	x = 4
5	6x/7 + 2 = 8	$\mathbf{x} = 7$
6	7x/3 - 4 = 10	$\mathbf{x} = 6$
7	8x/5 + 3 = 11	x = 5
8	9x/4 - 5 = 13	x = 8
9	10x/6 + 6 = 16	x = 6
10	2x/5 + 7 = 11	x = 10
11	3x/2 - 1 = 8	x = 6
12	4x/3 + 5 = 13	$\mathbf{x} = 6$
13	5x/4 - 2 = 8	x = 8
14	6x/5 + 4 = 16	x = 10

15	7x/2 - 6 = 15	x = 6
16	8x/7 + 5 = 13	x = 7
17	9x/3 - 7 = 14	x = 7
18	10x/4 + 8 = 18	x = 4
19	2x/7 + 9 = 11	x = 7
20	3x/5 - 4 = 5	x = 15
21	4x/2 + 6 = 14	x = 4
22	5x/3 - 3 = 7	x = 6
23	6x/4 + 7 = 16	x = 6
24	7x/5 - 5 = 9	x = 10
25	8x/6 + 4 = 12	x = 6
26	9x/2 - 8 = 19	x = 6
27	10x/3 + 9 = 19	x = 3
28	2x/4 - 1 = 4	x = 10
29	3x/6 + 10 = 13	x = 6
30	4x/7 - 2 = 6	x = 14

#### MASTERY OF MATHEMATICS

1	A rectangle's length is $2x/3 + 4$ cm and its width is 5 cm. The perimeter is 30 cm.	$\mathbf{x} = 6$
2	A number is multiplied by 3/4, then 2 is subtracted. The result is 5.	x = 12
3	The sum of $4x/5$ and 1 is the same as 9.	x = 10
4	A train travels at a speed of 5x/2 - 3 km/h for 2 hours and covers 14 km.	$\mathbf{x} = 4$
5	A shop sells $6x/7 + 2$ items in a day and makes £8 per item. Total sales are £64.	$\mathbf{x} = 7$
6	A triangle's base is $7x/3 - 4$ cm and its height is 6 cm. The area is 30 cm <sup>2</sup> .	$\mathbf{x} = 6$
7	A book has 8x/5 + 3 pages. After reading 11 pages, 5 pages are left.	$\mathbf{x} = 5$
8	A bag contains $9x/4 - 5$ red marbles and 13 blue marbles. The total is 26 marbles.	$\mathbf{x} = 8$
9	A recipe uses $10x/6 + 6$ cups of flour. The total flour used is 16 cups.	$\mathbf{x} = 6$
10	A car travels $2x/5 + 7$ km in one hour. The total distance is 11 km.	x = 10