LINEAR EQUATIONS WITH BRACKETS

Answer all of these questions. Remember to show your working out in all questions.

MAIN QUESTIONS

1.	2(3x + 1) = 14	x = 2	2.	4(2x - 3) = 20	x = 4
3.	5(x + 2) = 35	x = 5	4.	3(4x - 1) = 33	x = 3
5.	7(2x+3)=63	x = 3	6 .	6(3x - 2) = 42	x = 3
7.	8(x + 4) = 64	x = 4	8.	9(2x - 1) = 81	x = 5
9.	2(5x + 3) = 36	x = 3	10.	3(6x - 4) = 48	x = 4
11.	4(3x + 5) = 68	x = 4	12.	5(4x-2)=70	x = 4
13.	6(2x + 7) = 90	x = 4	14.	7(3x - 4) = 77	x = 5
15.	8(4x + 1) = 104	x = 3	16.	9(5x - 3) = 108	x = 3
17.	10(2x + 6) = 140	x = 4	18.	11(3x - 2) = 121	x = 5
19.	12(4x + 3) = 156	x = 3	20.	13(2x - 5) = 91	x = 6
21.	14(3x + 4) = 182	x = 4	22.	15(5x - 2) = 195	x = 3
23.	16(2x + 7) = 208	x = 5	24.	17(4x - 3) = 221	x = 4
25 .	18(3x + 8) = 234	x = 5	26.	19(2x - 6) = 190	x = 8
27 .	20(5x + 2) = 240	x = 2	28.	21(3x - 4) = 231	x = 5

MASTER QUESTIONS



- M1. A rectangle's length is 3cm more than twice its width. If the perimeter is 54cm, find the dimensions.
- M2. Three consecutive integers sum to 78. Find the integers. 25, 26, 27
- M3. A number multiplied by 5 and increased by 12 equals 47. Find the number.
- M4. The sum of two numbers is 45. One number is 15 more than the other. Find both numbers.
- M5. A train travels at a constant speed. In 5 hours it covers 325km. How far will it travel in 8 hours?
- M6. The area of a rectangle is 96cm². If the length is 8cm more than the width, find the dimensions. Width = 8cm, Length = 12cm
- M7. A shop sells pens for £2 each and notebooks for £3 each. If a customer buys 5 items and spends £12, how many of each did they buy?
- M8. The sum of three consecutive even numbers is 78. Find the numbers.
- M9. A father is three times as old as his son. In 12 years, he will be twice as old. Find their current ages.
- M10. A mixture contains nuts and raisins in the ratio 5:3. If there are 120g of nuts, how many grams of raisins are there?