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.	3(2x + 4) = 24	x = 2
3.	4(2x + 3) = 28	x = 2	4.	5(2x + 1) = 25	x = 2
5.	2(4x + 3) = 22	x = 2	6.	3(3x + 2) = 24	x = 2
7.	4(3x + 2) = 32	x = 2	8.	5(3x + 1) = 35	x = 2
9.	2(5x + 4) = 28	x = 2	10.	3(4x + 3) = 33	x = 2
11.	6(2x + 1) = 30	x = 2	12.	7(2x+3)=35	x = 1
13.	8(2x + 1) = 40	x = 2	14.	9(2x + 2) = 36	x = 1
15.	2(6x + 5) = 34	x = 2	16.	3(5x + 4) = 42	x = 2
17.	4(4x + 3) = 44	x = 2	18.	5(4x+2)=50	x = 2
19.	6(3x + 2) = 48	x = 2	20.	7(3x + 1) = 49	x = 2
21.	8(3x + 2) = 64	x = 2	22.	9(3x + 1) = 63	x = 2
23.	2(7x + 6) = 40	x = 2	24.	3(6x + 5) = 51	x = 2
25.	4(5x + 4) = 56	x = 2	26.	5(5x + 3) = 65	x = 2
27 .	6(4x + 3) = 66	x = 2	28.	7(4x+2)=70	x = 2

x = 2

MASTER QUESTIONS



- M1. A rectangle's length is 3 times its width plus 2cm. The width is 3cm If the perimeter is 28cm, find the width.
- M2. A number multiplied by 4 and increased by 3 gives 27. Find the number.
- M3. Five times a number plus 2 equals 32. What is the number is 6 number?
- M4. A box contains sweets. If each child gets 3 sweets plus 2 extra, and 20 sweets are distributed, how many children are there?
- M5. The area of a rectangle is 35cm². If the length is 3cm more than twice the width, find the width.
- M6. A train travels at a constant speed. In 4 hours it covers 5 times the distance plus 8km, totalling 48km. Find the speed.
- M7. A bookshelf has 7 shelves. Each shelf holds 4 books plus 3 extra, with 35 books total. How many books per shelf?
- M8. A recipe requires 2 cups of flour per batch plus 3 extra cups. With 17 cups available, how many batches can be made?
- M9. A garden's length is 5m more than twice its width.

 If the perimeter is 34m, find the width.

 The width is 4m
- M10. A number when multiplied by 6 and increased by 4 gives 40. Find the number.