EQUATIONS WITH BRACKETS

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

MAIN QUESTIONS

1. 2(3x + 1) = 14

3. 4(2x + 3) = 28

5. 2(4x + 3) = 22

7. 4(3x + 2) = 32

9. 2(5x + 4) = 28

11. 6(2x + 1) = 30

13. 8(2x + 1) = 40

15. 2(6x + 5) = 34

17. 4(4x + 3) = 44

19. 6(3x + 2) = 48

21. 8(3x + 2) = 64

23. 2(7x + 6) = 40

25. 4(5x + 4) = 56

27. 6(4x + 3) = 66

29. 8(4x + 3) = 88

3(2x + 4) = 24

4. 5(2x + 1) = 25

6. 3(3x + 2) = 24

8. 5(3x + 1) = 35

10. 3(4x + 3) = 33

12. 7(2x + 3) = 35

14. 9(2x + 2) = 36

16. 3(5x + 4) = 42

18. 5(4x + 2) = 50

20. 7(3x + 1) = 49

9(3x + 1) = 63

3(6x + 5) = 51

26. 5(5x + 3) = 65

28. 7(4x + 2) = 70

30. 9(4x + 2) = 90

MASTER QUESTIONS



- M1. A rectangle's length is 3 times its width plus 2cm. 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?
- 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.
- M10. A number when multiplied by 6 and increased by 4 gives 40. Find the number.