

EQUATIONS WITH BRACKETS

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

MAIN QUESTIONS

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|------------------------|------------------------|
| 1. $2(x + 3) = 10$ | 2. $3(2x - 1) = 15$ |
| 3. $4(3x + 2) = 32$ | 4. $5(x - 4) = 20$ |
| 5. $2(5x + 1) = 22$ | 6. $3(4x - 2) = 30$ |
| 7. $6(2x + 3) = 42$ | 8. $7(x - 5) = 14$ |
| 9. $4(5x - 3) = 68$ | 10. $3(6x + 4) = 66$ |
| 11. $5(3x - 2) = 65$ | 12. $2(7x + 5) = 38$ |
| 13. $8(2x - 1) = 56$ | 14. $9(x + 2) = 63$ |
| 15. $6(4x - 3) = 102$ | 16. $10(3x + 1) = 100$ |
| 17. $12(2x - 5) = 84$ | 18. $15(x + 4) = 120$ |
| 19. $20(3x - 2) = 200$ | 20. $25(2x + 1) = 225$ |

MASTER QUESTIONS



- M1.** A rectangle has a length of $(3x + 2)$ cm and a width of $(x - 1)$ cm. If the perimeter is 44 cm, find the value of x .
- M2.** The sum of three consecutive integers is 72. If the middle integer is x , find the value of x .

- M3.** A train travels at a speed of $(4x - 10)$ km/h for 3 hours and covers a distance of 150 km. Find the value of x .
- M4.** The area of a square is $(9x^2 - 24x + 16)$ cm². Find the length of one side of the square.