

EQUATIONS WITH BRACKETS

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

MAIN QUESTIONS

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|-----|--------------------|--|---------|-----|--------------------|--|----------|
| 1. | $2(x + 3) = 10$ | | $x = 2$ | 2. | $3(2x - 1) = 15$ | | $x = 3$ |
| 3. | $4(3x + 2) = 32$ | | $x = 2$ | 4. | $5(x - 4) = 20$ | | $x = 8$ |
| 5. | $2(5x + 1) = 22$ | | $x = 2$ | 6. | $3(4x - 2) = 30$ | | $x = 3$ |
| 7. | $6(2x + 3) = 42$ | | $x = 2$ | 8. | $7(x - 5) = 14$ | | $x = 7$ |
| 9. | $4(5x - 3) = 68$ | | $x = 4$ | 10. | $3(2x + 5) = 39$ | | $x = 4$ |
| 11. | $5(3x - 4) = 55$ | | $x = 5$ | 12. | $2(4x + 7) = 38$ | | $x = 3$ |
| 13. | $6(3x - 2) = 78$ | | $x = 5$ | 14. | $8(2x + 1) = 88$ | | $x = 5$ |
| 15. | $9(x - 3) = 54$ | | $x = 9$ | 16. | $5(4x - 6) = 90$ | | $x = 6$ |
| 17. | $7(3x + 4) = 133$ | | $x = 5$ | 18. | $10(2x - 5) = 150$ | | $x = 10$ |
| 19. | $12(3x + 2) = 300$ | | $x = 7$ | 20. | $15(x - 4) = 180$ | | $x = 16$ |

MASTER QUESTIONS



- M1. A rectangle has a length of $(2x + 3)$ cm and a width of $(x - 1)$ cm. If the perimeter is 34 cm, find the value of x . | $x = 4$

- M2.** The sum of three consecutive integers is 72. If the middle integer is x , find the value of x . | $x = 24$
- M3.** A train travels at a speed of $(3x - 10)$ km/h for 2 hours and covers a distance of 100 km. Find the value of x . | $x = 20$
- M4.** The area of a triangle is 60 cm^2 . If the base is $(4x + 2)$ cm and the height is 10 cm, find the value of x . | $x = 1$