

LINEAR EQUATIONS WITH NON-UNIT FRACTIONS

Answer all questions. Show your working.

MAIN TASK

1. $2x/3 + 4 = 8$

2. $3x/4 - 2 = 5$

3. $4x/5 + 1 = 9$

4. $5x/2 - 3 = 7$

5. $6x/7 + 2 = 8$

6. $7x/3 - 4 = 10$

7. $8x/5 + 3 = 11$

8. $9x/4 - 5 = 13$

9. $10x/6 + 6 = 16$

10. $2x/5 + 7 = 11$

11. $3x/2 - 1 = 8$

12. $4x/3 + 5 = 13$

13. $5x/4 - 2 = 8$

14. $6x/5 + 4 = 16$

15. $7x/2 - 6 = 15$

16. $8x/7 + 5 = 13$

17. $9x/3 - 7 = 14$

18. $10x/4 + 8 = 18$

19. $2x/7 + 9 = 11$

20. $3x/5 - 4 = 5$

21. $4x/2 + 6 = 14$

22. $5x/3 - 3 = 7$

23. $6x/4 + 7 = 16$

24. $7x/5 - 5 = 9$

25. $8x/6 + 4 = 12$

26. $9x/2 - 8 = 19$

27. $10x/3 + 9 = 19$

28. $2x/4 - 1 = 4$

29. $3x/6 + 10 = 13$

30. $4x/7 - 2 = 6$

MASTERY OF MATHEMATICS



1. A rectangle's length is $2x/3 + 4$ cm and its width is 5 cm. The perimeter is 30 cm.
2. A number is multiplied by $3/4$, then 2 is subtracted. The result is 5.
3. The sum of $4x/5$ and 1 is the same as 9.
4. A train travels at a speed of $5x/2 - 3$ km/h for 2 hours and covers 14 km.
5. A shop sells $6x/7 + 2$ items in a day and makes £8 per item. Total sales are £64.
6. A triangle's base is $7x/3 - 4$ cm and its height is 6 cm. The area is 30 cm^2 .
7. A book has $8x/5 + 3$ pages. After reading 11 pages, 5 pages are left.
8. A bag contains $9x/4 - 5$ red marbles and 13 blue marbles. The total is 26 marbles.
9. A recipe uses $10x/6 + 6$ cups of flour. The total flour used is 16 cups.
10. A car travels $2x/5 + 7$ km in one hour. The total distance is 11 km.