

LINEAR EQUATIONS WITH FRACTIONS

Answer all questions. Show your working.

MAIN TASK

1. $x/2 + 3 = 5$

2. $x/4 - 1 = 2$

3. $x/3 + 4 = 7$

4. $x/5 - 2 = 1$

5. $x/6 + 1 = 3$

6. $x/7 - 3 = 0$

7. $x/8 + 2 = 5$

8. $x/1 - 4 = 2$

9. $x/2 + 5 = 8$

10. $x/3 - 2 = 1$

11. $x/4 + 1 = 4$

12. $x/5 - 0 = 3$

13. $x/6 + 3 = 6$

14. $x/7 - 1 = 2$

15. $x/8 + 0 = 1$

16. $x/1 + 1 = 6$

17. $x/2 - 1 = 4$

18. $x/3 + 2 = 5$

19. $x/4 - 3 = 0$

20. $x/5 + 2 = 5$

21. $x/6 - 2 = 1$

22. $x/7 + 1 = 3$

23. $x/8 - 1 = 0$

24. $x/1 + 3 = 7$

25. $x/2 - 0 = 3$

26. $x/3 + 1 = 4$

27. $x/4 - 2 = 1$

28. $x/5 + 3 = 6$

29. $x/6 - 1 = 2$

30. $x/7 + 2 = 5$

MASTERY OF MATHEMATICS



1. A rectangle has a length of $x/3 + 2$ cm and a width of 4 cm. The perimeter is 20 cm.

2. The sum of $x/4 - 1$ and 5 is 7.

3. A number divided by 5 plus 3 equals 6.
5. A train travels $x/6 + 2$ hours and covers 300 km. Its speed is 60 km/h.
7. A bag contains $x/8 + 1$ marbles. If 5 marbles are added, the total becomes 10.
9. A triangle has a base of $x/4 - 2$ cm and a height of 6 cm. Its area is 12 cm^2 .
4. The difference between $x/2 + 4$ and 3 is 5.
6. The product of 3 and $x/7 - 1$ is 6.
8. The sum of two consecutive numbers is $x/5 + 4$. The smaller number is 3.
10. The total cost of $x/2 + 3$ books at £4 each is £20.

LINEAR EQUATIONS WITH FRACTIONS

MAIN TASK

1	$x/2 + 3 = 5$	4
2	$x/4 - 1 = 2$	12
3	$x/3 + 4 = 7$	9
4	$x/5 - 2 = 1$	15
5	$x/6 + 1 = 3$	12
6	$x/7 - 3 = 0$	21
7	$x/8 + 2 = 5$	24
8	$x/1 - 4 = 2$	6
9	$x/2 + 5 = 8$	6
10	$x/3 - 2 = 1$	9
11	$x/4 + 1 = 4$	12
12	$x/5 - 0 = 3$	15
13	$x/6 + 3 = 6$	18
14	$x/7 - 1 = 2$	21
15	$x/8 + 0 = 1$	8
16	$x/1 + 1 = 6$	5
17	$x/2 - 1 = 4$	10

18	$x/3 + 2 = 5$	9
19	$x/4 - 3 = 0$	12
20	$x/5 + 2 = 5$	15
21	$x/6 - 2 = 1$	18
22	$x/7 + 1 = 3$	14
23	$x/8 - 1 = 0$	8
24	$x/1 + 3 = 7$	4
25	$x/2 - 0 = 3$	6
26	$x/3 + 1 = 4$	9
27	$x/4 - 2 = 1$	12
28	$x/5 + 3 = 6$	15
29	$x/6 - 1 = 2$	18
30	$x/7 + 2 = 5$	21



1	A rectangle has a length of $x/3 + 2$ cm and a width of 4 cm. The perimeter is 20 cm.	6
2	The sum of $x/4 - 1$ and 5 is 7.	12
3	A number divided by 5 plus 3 equals 6.	15
4	The difference between $x/2 + 4$ and 3 is 5.	8
5	A train travels $x/6 + 2$ hours and covers 300 km. Its speed is 60 km/h.	12
6	The product of 3 and $x/7 - 1$ is 6.	21
7	A bag contains $x/8 + 1$ marbles. If 5 marbles are added, the total becomes 10.	32
8	The sum of two consecutive numbers is $x/5 + 4$. The smaller number is 3.	15
9	A triangle has a base of $x/4 - 2$ cm and a height of 6 cm. Its area is 12 cm^2 .	12
10	The total cost of $x/2 + 3$ books at £4 each is £20.	4