

# LINEAR EQUATIONS WITH BRACKETS

Answer all questions. Show your working.

---

## MAIN TASK

1.  $2(x +$

2.  $= 9$

4.  $5(x -$

5.  $= 16$

7.  $4(x +$

3.  $= 10$

10.  $3(x -$

3.  $= 28$

13.  $2(x +$

4.  $= 3$

16.  $5(x -$

7.  $= 22$

19.  $4(x +$

5.  $= 0$

22.  $3(x -$

6.  $= 40$

25.  $2(x +$

7.  $= 6$

28.  $5(x -$

10.  $= 30$

3.  $= 10$

3.  $4(x +$

4.  $= 5$

6.  $3(x -$

2.  $= 24$

9.  $2(x +$

5.  $= 6$

12.  $5(x -$

6.  $= 20$

15.  $4(x +$

1.  $= 20$

18.  $3(x -$

4.  $= 32$

21.  $2(x +$

6.  $= 9$

24.  $5(x -$

9.  $= 28$

27.  $4(x +$

6.  $= 5$

30.  $3(x -$

2.  $3(x -$

1.  $= 20$

5.  $2(x +$

1.  $= 6$

8.  $5(x -$

4.  $= 14$

11.  $4(x +$

2.  $= 15$

14.  $3(x -$

5.  $= 36$

17.  $2(x +$

3.  $= 12$

20.  $5(x -$

8.  $= 24$

23.  $4(x +$

4.  $= 25$

26.  $3(x -$

7.  $= 44$

29.  $2(x +$

8.  $= 3$

---

## MASTERY OF MATHEMATICS



1. A rectangle has a length of  $(x + 4)$  cm and a width of 2 cm. The area is  $20 \text{ cm}^2$ . Write an equation and solve for  $x$ .
2. The perimeter of a square is given by  $4(x - 3) = 20$ . Find the side length.
3. A number is multiplied by 3, then 6 is subtracted. The result is 12. Write an equation and solve for  $x$ .
4. The sum of twice a number and 8 is 20. Write an equation and solve for  $x$ .
5. A train travels at a speed of  $(x + 5)$  km/h for 4 hours and covers 60 km. Write an equation and solve for  $x$ .
6. The cost of 5 books is  $\pounds(x - 2)$  each. The total cost is  $\pounds 15$ . Write an equation and solve for  $x$ .

# LINEAR EQUATIONS WITH BRACKETS

## MAIN TASK

1	$2(x + 3) = 10$	$x = 2$
3	$3(x - 2) = 9$	$x = 4$
2	$4(x + 5) = 28$	$x = 5$
2	$5(x - 4) = 5$	$x = 5$
3	$6(x + 2) = 24$	$x = 4$

1	$= 20$	$x = 2$
4	$5(x -$	$x = 5$
4	$= 5$	$x = 5$
5	$2(x +$	$x = 3$
5	$= 16$	$x = 3$
6	$3(x -$	$x = 3$
1	$= 6$	$x = 2$
7	$4(x +$	$x = 4$
2	$= 24$	$x = 5$
8	$5(x -$	$x = 5$
3	$= 10$	$x = 4$
9	$2(x +$	$x = 3$
4	$= 14$	$x = 5$
10	$3(x -$	$x = 7$
5	$= 6$	$x = 3$
11	$4(x +$	$x = 4$
3	$= 28$	$x = 4$
12	$5(x -$	$x = 5$
2	$= 15$	$x = 5$
13	$2(x +$	$x = 4$
6	$= 20$	$x = 3$
14	$3(x -$	$x = 5$
4	$= 3$	$x = 5$
15	$4(x +$	$x = 4$
5	$= 36$	$x = 3$
16	$5(x -$	$x = 5$
1	$= 20$	$x = 2$
17	$2(x +$	$x = 4$
7	$= 22$	$x = 4$

18	$3(x -$	$x = 7$
3	$= 12$	$x = 4$
19	$4(x +$	$x = 4$
4	$= 32$	$x = 5$
20	$5(x -$	$x = 5$
5	$= 0$	$x = 3$
21	$2(x +$	$x = 4$
8	$= 24$	$x = 5$
22	$3(x -$	$x = 9$
6	$= 9$	$x = 3$
23	$4(x +$	$x = 4$
6	$= 40$	$x = 3$
24	$5(x -$	$x = 9$
4	$= 25$	$x = 5$
25	$2(x +$	$x = 5$
9	$= 28$	$x = 3$
26	$3(x -$	$x = 9$
7	$= 6$	$x = 4$
27	$4(x +$	$x = 4$
7	$= 44$	$x = 4$
28	$5(x -$	$x = 7$
6	$= 5$	$x = 3$
29	$2(x +$	$x = 5$
10	$= 30$	$x = 7$
30	$3(x -$	$x = 9$
8	$= 3$	$x = 5$



1	A rectangle has a length of $(x +$	$x = 6$
4	cm and a width of 2 cm. The area is $20 \text{ cm}^2$ . Write an equation and solve for $x$ .	$x = 6$
2	The perimeter of a square is given by $4(x -$	$x = 8$
3	$= 20$ . Find the side length.	$x = 6$
3	A number is multiplied by 3, then 6 is subtracted. The result is 12. Write an equation and solve for $x$ .	$x = 6$
4	The sum of twice a number and 8 is 20. Write an equation and solve for $x$ .	$x = 6$
5	A train travels at a speed of $(x +$	$x = 10$
5	km/h for 4 hours and covers 60 km. Write an equation and solve for $x$ .	$x = 10$
6	The cost of 5 books is $\pounds(x -$	$x = 5$
2	each. The total cost is $\pounds 15$ . Write an equation and solve for $x$ .	$x = 8$