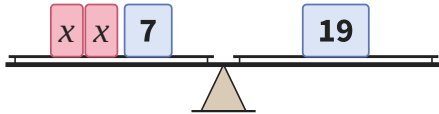


Solving Equations

ANSWERS

1

Solve $2x + 7 = 19$



$- 7$ both sides

$2x = 12$

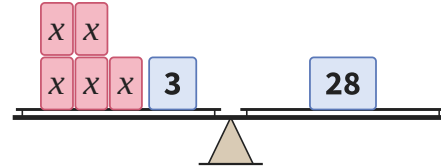
$\div 2$ both sides

$x = 6$

Answer $x = 6$

2

Solve $5x + 3 = 28$



$- 3$ both sides

$5x = 25$

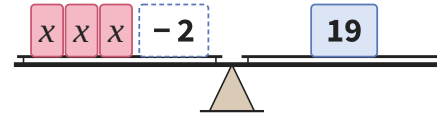
$\div 5$ both sides

$x = 5$

Answer $x = 5$

3

Solve $3x - 2 = 19$



$+ 2$ both sides

$3x = 21$

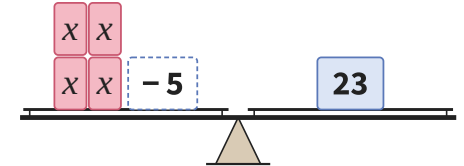
$\div 3$ both sides

$x = 7$

Answer $x = 7$

4

Solve $4x - 5 = 23$



$+ 5$ both sides

$4x = 28$

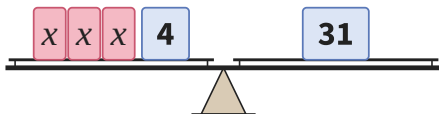
$\div 4$ both sides

$x = 7$

Answer $x = 7$

5

Solve $3x + 4 = 31$



$- 4$ both sides

$3x = 27$

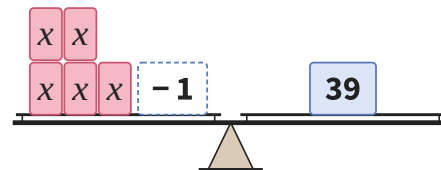
$\div 3$ both sides

$x = 9$

Answer $x = 9$

6

Solve $5x - 1 = 39$



$+ 1$ both sides

$5x = 40$

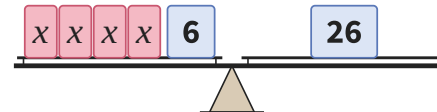
$\div 5$ both sides

$x = 8$

Answer $x = 8$

7

Write the equation for this balance. Then solve it.



Equation $4x + 6 = 26$

$- 6$ both sides

$4x = 20$

$\div 4$ both sides

$x = 5$

Answer $x = 5$

8

I think of a number, n . I multiply it by 2. Then I add 9. I get 21. What is my number?



Equation $2n + 9 = 21$

$- 9$ both sides

$2n = 12$

$\div 2$ both sides

$n = 6$

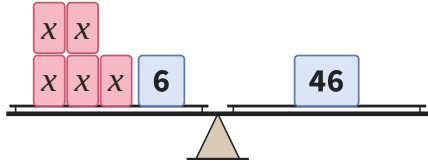
Answer $n = 6$

Solving Equations *further practice*

ANSWERS

9

Solve $5x + 6 = 46$



$- 6$ both sides

$$5x = 40$$

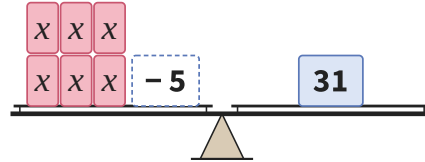
$\div 5$ both sides

$$x = 8$$

Answer $x = 8$

10

Solve $6x - 5 = 31$



$+ 5$ both sides

$$6x = 36$$

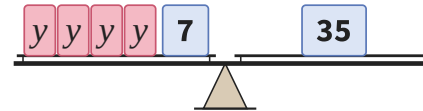
$\div 6$ both sides

$$x = 6$$

Answer $x = 6$

11

Solve $4y + 7 = 35$



$- 7$ both sides

$$4y = 28$$

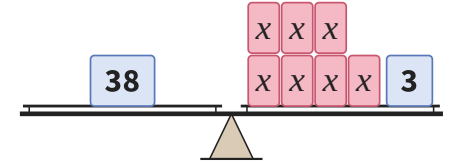
$\div 4$ both sides

$$y = 7$$

Answer $y = 7$

12

Solve $38 = 7x + 3$



$- 3$ both sides

$$35 = 7x$$

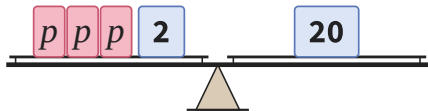
$\div 7$ both sides

$$5 = x$$

Answer $x = 5$

13

Mia buys 3 packs of stickers at $\pounds p$ each and a $\pounds 2$ pen. She spends $\pounds 20$. How much is one pack?



Equation $3p + 2 = 20$

$- 2$ both sides

$$3p = 18$$

$\div 3$ both sides

$$p = 6$$

One pack $\pounds 6$

14

I think of a number, n . I multiply it by 8. Then I take away 6. I get 50. What is my number?



Equation $8n - 6 = 50$

$+ 6$ both sides

$$8n = 56$$

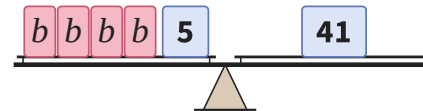
$\div 8$ both sides

$$n = 7$$

My number 7

15

Each bag has b marbles. 4 bags and 5 loose marbles make 41 marbles. How many are in one bag?



Equation $4b + 5 = 41$

$- 5$ both sides

$$4b = 36$$

$\div 4$ both sides

$$b = 9$$

One bag 9 marbles

16

Sam has made a mistake. What is it?

Sam solves $3x + 6 = 21$

$+ 6$ both sides

$$3x = 27$$

$\div 3$ both sides

$$x = 9$$

Sam's mistake is adding 6

$- 6$ both sides, $3x = 15$

The answer is $x = 5$