

Balancing Simple Equations

Name: _____

Date: _____

Remember: An equation is like a balance scale. Whatever you do to one side, you must do to the other side to keep it balanced! 

Part A: Find the Value of the Variable

Solve each equation to find the value of the variable.

1. $x + 7 = 15$ x = _____

2. $a + 12 = 20$ a = _____

3. $m - 5 = 9$ m = _____

4. $y - 8 = 14$ y = _____

5. $3n = 21$ n = _____

6. $5p = 35$ p = _____

Part B: Two-Step Equations

These equations need two steps to solve. Show your working.

7. $2x + 3 = 11$
Working: _____
x = _____

8. $4a - 5 = 19$
Working: _____
a = _____

9. $3m + 7 = 28$
Working: _____
m = _____

Part C: Word Problems

Write an equation for each problem, then solve it.

10. Sophie has some marbles. When she gets 6 more marbles, she has 18 marbles altogether. How many marbles did Sophie start with?

Equation: _____

Answer: _____

11. A number multiplied by 4 equals 32. What is the number?

Equation: _____

Answer: _____