

# Math Practice Problems

## Algebra Problems

1. Solve for  $x$ :  $5x + 3 = 23$
2. Simplify:  $(2x + 3)(x - 4)$
3. Solve:  $x^2 - 5x + 6 = 0$
4. Find  $x$ :  $3x/2 = 9$
5. Solve:  $2x + 3y = 12$ ,  $x - y = 1$

## Geometry Problems

6. Find the area of a rectangle: length = 8, width = 5
7. Calculate the perimeter of a square with side = 6
8. Find the area of a circle with radius = 4 (use  $\pi \approx 3.14$ )
9. Calculate the volume of a cube with side = 3
10. Find the area of a triangle: base = 10, height = 6

## Answer Key

- 1)  $x = 4$ , 2)  $2x^2 - 5x - 12$ , 3)  $x = 2$  or  $3$ , 4)  $x = 6$ , 5)  $x = 3$ ,  $y = 2$
- 6) 40, 7) 24, 8) 50.24, 9) 27, 10) 30