

# Paper 4

July 26, 2024

1. What is  $7770 \div 10$ ?

2. If  $x = 20$  and  $y = -20$ , then what is the value of  $x^2 + y^2 + 2xy$ ?

3. Solve for  $x$ :  $12x + 14 = 19x$ .

4. Find  $x$  and  $y$  such that

$$3x + y = 19$$

$$x + y = 11$$

5. What is the result when we divide  $205 \times 205$  by 205?

6. What is the sum of first sixty one positive integers?

7. Simplify  $(a^2)^4(ab)^3c^3$ .

8. If we write all the numbers from 1 to 100 then how many times would we have used the digit 1?



9. Express  $\frac{1}{9}$  as a power of 3.

10. Which of the following numbers is not divisible by 8
- 8,024
  - 168,640
  - 8,648,034
  - 720,032
  - 64,856