

Rules of Divisibility

Know your rules of divisibility for 2, 5, and 10; 3 and 9; 6; 4 and 8.

Example: Is 8,226 divisible by 9?

Using the rule of divisibility for 9, is the sum of the digits of 8,226 divisible by 9? $8 + 2 + 2 + 6 = 18$ and $18 = 2 \times 9$.

Therefore, 8,226 is divisible by 9.

Determine if the following numbers are divisible by 2, 3, 4, 5, 6, 8, 9, or 10.

1. 30

2. 22

3. 51

4. 24

5. 48

6. 400

7. 711

8. 532

9. 66

10. 1,803

11. 915

12. 768

13. 2,570

14. 4,986

15. 3,104

16. Write a 5-digit number that is divisible by 2, 3, 4, 5, 6, 9 and 10 – not 8.