



## Divisibility Rules

Determine if each number is divisible by 2,3,4,5, or 10.

Make a list for each problem (list all the numbers in cases where there are more divisors).

*Example: 18: 2, 3*

1. 175
2. 2001
3. 321
4. 1452
5. 24 510
6. 15 000
7. 595
8. 900
9. 62 100
10. 7 412

Using divisibility rules, choose one digit a number is divisible by and explain why.

*Example : 812 is divisible by **2** because **it ends in an even number.***

11. 900 is divisible by \_\_\_\_\_ because \_\_\_\_\_
12. 2020 is divisible by \_\_\_\_\_ because \_\_\_\_\_
13. 102123 is divisible by \_\_\_\_\_ because \_\_\_\_\_
14. 1815 is divisible by \_\_\_\_\_ because \_\_\_\_\_
15. 3732 is divisible by \_\_\_\_\_ because \_\_\_\_\_
16. 65525 is divisible by \_\_\_\_\_ because \_\_\_\_\_
17. 111111 is divisible by \_\_\_\_\_ because \_\_\_\_\_
18. 81 000 is divisible by \_\_\_\_\_ because \_\_\_\_\_

Use the divisibility rules to answer the following word problems.

19. Sizwe and Sinethemba are getting married! They have 330 guests that plan to attend. They are planning their table set up and want the same number of guests at each table.

Using the rules of divisibility, how many guests could Sizwe and Sinethemba put at each table?

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20. Thabo has 140 books in his library at home. He wants to place an equal number of books on each shelf. Using the rules of divisibility, what are some possible number of shelves Thabo could use?

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