GRADES

3 - 8

9 Classroom Reference Posters

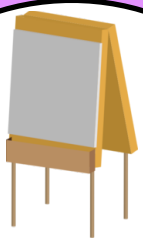
Is it divisible by... 9 divisibility rules Posters

By Dot Cates

Each Poster for numbers 2-10 Features:

- Eye Catching Graphic
- A Useful Divisibility Rule
- Several Examples Demonstrating the Rule

Fun to learn and apply!



Great for Classroom Reference

Useful Math Rules

Eye-Catching and Informative!

THE # TWO?

Rule: Any number that ends with:
0, 2, 4, 6, or 8 is a multiple of two.

23,984

23,984 ends with a 4.
Therefore, 23,984 is a multiple of 4.

Number	Divisible?	Why?
492	YES	Because it ends with 2.
197	NO	Because it ends with 7.

THREE?

Rule: If the sum of the digits is a multiple of three, the number is a multiple of 3.

2,079

2+0+7+9 = 18
18 is a multiple of 3.
Therefore, 2,079 is a multiple of 3.

Number	Divisible?	Why?
1,254	YES	Because 1+2+5+4 =12
322	NO	Because 3+2+2=7

FOUR?

Rule: If the last two digits are a multiple of four, the number is a multiple of 4.

1,824

24 is a multiple of 4.
Therefore, 1,824 is a multiple of 4.

Number	Divisible?	Why?
563	NO	Because 63 is not a multiple of 4.
932	YES	Because 32 is a multiple of 4.

#5?

THE FIVE

Rule: If the final digit is a 0 or 5, the number is a multiple of 5.

895

895 ends with a 5.
Therefore, 895 is a multiple of 5.

Number	Divisible?	Why?
700	YES	Because it ends with a 0.
227	NO	Because it ends with a 7.

#SIX? THE

Rule: If it is divisible by 2 and 3, the number is a multiple of 6.

6,294

The last digit is a 4, so it is a multiple of 2.
6+2+9+4 = 21, a multiple of 3, so it is a multiple of 3.
Therefore, it is a multiple of 6.

Number	Divisible?	Why?
198	YES	It ends with 8, and 1+9+8=18
225	NO	It is a multiple of 3 (2+2+5=9) but not 2

IS IT #7?

Rule: Double the last digit and subtract it from the rest of the digits. If the difference is divisible by 7, the number is a multiple of 7.

357

Double the 7 to 14.
Subtract 35 - 14 = 21, which is a multiple of 7.
Therefore, it is a multiple of 7.

Number	Divisible?	Why?
223	NO	3x2=6 & 22-6=18 (not a multiple of 7)
396	NO	6x2=12 & 39-12=27 (not a multiple of 7)

The # Eight?

Rule: If the last three digits of the number are divisible by 8, the number is a multiple of 8.

1,008

008 ÷ 8 = 1
Therefore, 1,008 is a multiple of 8

Number	Divisible?	Why?
5,240	YES	240÷8=30
2,341	NO	341÷8= 42.625 341 is not divisible by 8.

9?

Rule: If the sum of all the digits is a multiple of 9, the number is a multiple of 9.

2,655

2+6+5+5= 18
18 ÷ 9 = 2
Therefore, 2,655 is a multiple of 9

Number	Divisible?	Why?
2,079	YES	2+7+9=18 18 ÷ 9 = 2
3,921	NO	3+9+2+1=15 15 ÷ 9 = 1 r6

10?

Rule: If the digit in the ones column is 0, the number is a multiple of 10.

9,310

The digit in the ones column is 0.
Therefore, 9,310 is a multiple of 10.

Number	Divisible?	Why?
3,420	YES	The digit in the ones column is 0.
9,972	NO	The digit in the ones column is not 0, it is 2.

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