Divisibility Rules Worksheet

The divisibility rules make math easier. Did you ever wonder how people

because it ends in zero.

Name:

| nese rules are how they do it. Memorize a few simple rules and simplifying fractions and prime factorization will be so much easier. | | | | |
|--|---|--|--|--|
| Number | Divisibility Rule | Example | | |
| Two (2) | A number is divisible by two if it is even . Another way to say a number is even is to say it ends in 0, 2, 4, 6 or 8. | 642 is divisible by two because it ends in a two, which makes it an even number | | |
| Three (3) | A number is divisible by there if the sum of the digits adds up to a multiple of three (3, 6, 9, 12, 15). | 423 is divisible by three because 4 + 2 + 3 = 9. Since nine is a multiple of three (or is divisible by three), then 423 is divisible by three | | |
| Four (4) | A number is divisible by four if it is even and can be divided by two twice. | 128 is divisible by four because half of it is 64 and 64 is still divisible by two | | |
| Five (5) | A number is divisible by five if it ends in a five or a zero. | 435 is divisible by five because it ends in a five | | |
| Six (6) | A number is divisible by six if it is divisible by both two and three. | 222 is divisible by six, because it is even, so it is | | |

| | 3dy it chas in 0, 2, 4, 0 01 0. | number | |
|-----------|---|--|--|
| Three (3) | A number is divisible by there if the sum of the digits adds up to a multiple of three (3, 6, 9, 12, 15). | 423 is divisible by three because 4 + 2 + 3 = 9. Since nine is a multiple of three (or is divisible by three), then 423 is divisible by three | |
| Four (4) | A number is divisible by four if it is even and can be divided by two twice. | 128 is divisible by four because half of it is 64 and 64 is still divisible by two | |
| Five (5) | A number is divisible by five if it ends in a five or a zero. | 435 is divisible by five because it ends in a five | |
| Six (6) | A number is divisible by six if it is divisible by both two and three. | 222 is divisible by six, because it is even, so it is divisible by two and its digits add up to six, which | |

digits add up to six, which

makes it divisible by three

Nine (9) A number is divisible by nine if the sum 9243 is divisible by nine because the sum of the

of the digits adds up to a multiple of

nine (9, 18, 27, 36...). This rule is digits adds up to eighteen,

similar to the divisibility rule for three. which is a multiple of nine. Ten (10) A number is divisible by ten if it ends in 730 is divisible by ten

a zero. This rule is similar to the

divisibility rule for five.