

Divisibility Tests Worksheets

Circle ALL the numbers that are factors of the given number. Explain your reasoning for your choice(s).

1. 2,838 is divisible by

3

9

4

2. 34,515 is divisible by

3

9

5

3. 10,534,341 is divisible by

3

9

2

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Circle ALL the numbers that are factors of the given number. Explain your reasoning for your choice(s).

2, 838 is divisible by

3
 9
 4

2, 838 is divisible by 3 because the sum of the digits is 21, which is divisible by 3. 2, 838 is not divisible by 9 because 21 is not divisible by 9, and 2, 838 is not divisible by 4 because the last two digits (38) are not divisible by 4.

2. 34,515 is divisible by

3
 9
 5

34, 515 is divisible by 3 and 9 because both 3 and 9 because the sum of the digits is 18, and 18 is divisible by both 3 and 9. 34, 515 is also divisible by 5 because the last digit is a 5.

3. 10,534,341 is divisible by

3
 9
 2

10, 534, 341 is divisible by 3 but not 9 because the sum of the digits is 21, which is divisible by 3 but not 9. 10, 534, 341 is not divisible by 2 because it does not end with 0, 2, 4, 6, or 8.