## **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

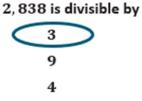
- 2. 34,515 is divisible by
  - 3
  - 9
  - 5

- 3. 10,534,341 is divisible by
  - 3
  - 9
  - 2

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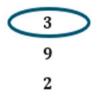
2,838 is divisible by 3 because the sum of the digits is 21, which is divisible by 3. 2,838 is not divisible by 9 because 21 is not divisible by 9, and 2,838 is not divisible by 4 because the last two digits (38) are not divisible by 4.

2. 34,515 is divisible by



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



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.

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