

Divisibility Tests Worksheets

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

1. 4,320 is divisible by

3

9

10

2. 6,240 is divisible by

3

9

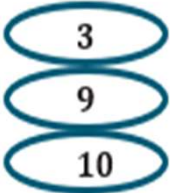
8

3. Is 3,822 divisible by 3 or 9? Why or why not?

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

1. 4,320 is divisible by



4, 320 is divisible by 3 and 9 because the sum of the digits is 9, which is divisible by 3 and 9. 4, 320 is also divisible by 10 because the last digit is 0.

2. 6,240 is divisible by



6, 240 is divisible by 3 but not divisible by 9 because the sum of the digits is 12, which is divisible by 3 but not divisible by 9. 6, 240 is divisible by 8 because the last three digits (240) is divisible by 8.

3. Is 3,822 divisible by 3 or 9? Why or why not?

The number 3, 822 is divisible by 3 but not by 9 because the sum of the digits is $3 + 8 + 2 + 2 = 15$, and 15 is divisible by 3 but not by 9.