

**Example:** Use the divisibility rules to see which numbers (2 through 10) divide evenly into 1,280.

**2** YES

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1,280 is an even number and even numbers are divisible by 2.

**3** NO

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The sum of the digits in 1,280 is  $1+2+8+0 = 11$ . 11 is NOT divisible by 3, so 1,280 is not divisible by 3.

**4** YES

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The last 2 digits of 1,280 form the number 80. 80 is divisible by 4, so 1,280 is divisible by 4.

**5** YES

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The last digit of 1,280 is 0, so it is divisible by 5.

**6** NO

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1,280 is not divisible by both 2 and 3, so it is not divisible by 6.

**7** NO

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Using division,  $1,280 \div 7 = 182$  with a remainder of 6, so it is not evenly divisible by 7 (since there is a remainder).

**8** YES

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The last 3 digits of 1,280 form the number 280. 280 is divisible by 8, so 1,280 is divisible by 8.

**9** NO

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The sum of the digits in 1,280 is  $1+2+8+0 = 11$ . 11 is NOT divisible by 9, so 1,280 is not divisible by 9.

*This test could have been skipped, since we already know that 1,280 is not divisible by 3. If a number is not divisible by 3, then it is not divisible by 9.*

**10** YES

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The last digit of 1,280 is 0, so it is divisible by 10.