STUDY LINK
1·5

Divisibility Rules

◆ All even numbers are divisible by 2.

◆ A number is divisible by 3 if the sum of its digits is divisible by 3.

◆ A number is divisible by 6 if it is divisible by both 2 and 3.

◆ A number is divisible by 9 if the sum of its digits is divisible by 9.

◆ A number is divisible by 5 if it ends in 0 or 5.

◆ A number is divisible by 10 if it ends in 0.

1. Use divisibility rules to test whether each number is divisible by 2, 3, 5, 6, 9, or 10.

Number	Divisible...					
	by 2?	by 3?	by 6?	by 9?	by 5?	by 10?
998,876						
5,890						
36,540						
33,015						
1,098						

A number is divisible by 4 if the tens and ones digits form a number that is divisible by 4.

Example: 47,8**36** is divisible by 4 because 36 is divisible by 4.

It isn't always easy to tell whether the last two digits form a number that is divisible by 4. A quick way to check is to divide the number by 2 and then divide the result by 2. It's the same as dividing by 4, but is easier to do mentally.

Example: 5,3**84** is divisible by 4 because 84 / 2 = 42 and 42 / 2 = 21.

2. Place a star next to any number in the table that is divisible by 4.

Practice

3. 250 ∗ 7 = _____

4. 1,931 + 4,763 + 2,059 = _____

5. (20 + 30) ∗ 5 = _____

6. 78 ÷ 6 = _____

15