

Name: \_\_\_\_\_ Date: \_\_\_\_\_

Tests for Divisibility of Numbers

**Q1. Which of the following numbers is divisible by 5?**

Sol. a. 10050                      b. 12305

**Q2. Is the number 4326 divisible by 6?**

Sol.

**Q3. Is 5642 divisible by 7?**

Sol.

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## Tests for Divisibility of Numbers

**Q1. Which of the following numbers is divisible by 5?**

Sol. a. 10050                      b. 12305

**Rule:** A number which has either 0 or 5 in its ones place is divisible by 5.

**a. 10050** - Here last digit of the number is 0. So, the number 10050 is divisible by 5.

**b. 12306** - Here last digit of the number is 6. So, the number 12306 is not divisible by 5.

**Q2. Is the number 4326 divisible by 6?**

Sol. **Rule:** If a number is divisible by 2 and 3 both then it is divisible by 6 also.

**4326**

i. Number 4326 end in even number (i.e. 6). So, 4326 is divisible by 2.

ii. Sum of the digit of the given number  $4326 = 4 + 3 + 2 + 6 = 15$ .

Number '15' is divisible by 3. So, 4326 is divisible by 3.

Given number 4326 is divisible by 2 as well as by 3. So, 4326 is divisible by 6.

**Q3. Is 5642 divisible by 7?**

Sol. **Rule:** Double the last number of the given number and then subtract it from the rest of the number left in the given number. If the answer we get is either 0 or any number divisible by 7, then the given number is divisible by 7.

**Step1: Double the last digit**

Here last digit is 2. Double of 2 is 4.

**Step2: Subtract the answer from the rest of the number.**

Number left is 564. So, subtract 4 from 564.

$$564 - 4 = 560$$

**Step3: Number 560 is divisible by 7. So, 5642 is divisible by 7**