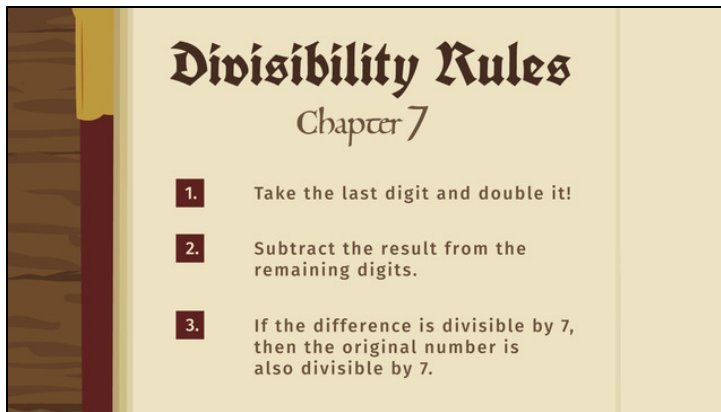




Printable Worksheets from [sofatutor.com](https://www.sofatutor.com)

Divisibility Rules - 7



- 1 Explain what it means if a number is divisible by another number.
- 2 State how to use the divisibility rules of the number 7.
- 3 Summarize the divisibility rule for 7.
- 4 Explain how to use the divisibility rule of 7 with large numbers.
- 5 Determine which offers are divisible by 7.
- 6 Determine which numbers are divisible by 7.
- + with lots of tips, answer keys, and detailed answer explanations for all of the problems.



The complete package, including all problems, hints, answers, and detailed answer explanations is available for all [sofatutor.com](https://www.sofatutor.com) subscribers.



Explain what it means if a number is divisible by another number.

Select the true statements.



The seven dwarfs are very impressed with Snow White's math skills. They ask Snow White to teach them more about her clever division tricks. The dwarfs start by writing down everything they think is true about division. They ask Snow White to tell them if any of their statements are true.

Help Snow White identify the correct statements about division.

- A
Given two numbers, if you can divide the first by the second without any remainder, the first number is divisible by the second.
- B
One number is divisible by another, even if you get a remainder when you do the division operation.
- C
If a large number of apples is divisible by 6, you can put all the apples into 6 even piles, and have no apples left over.
- D
A divisibility rule is a very long way of determining whether a given number is divisible by a fixed divisor without performing the division.
- E
If one whole number is divisible by another number, then the second number is a factor of the first number.



Hints for solving these problems

1
of 6

Explain what it means if a number is divisible by another number.

Hint #1

In order for two numbers to be called divisible, there cannot be a remainder after you divide them.

Hint #2

Do the divisibility rules take you a longer time to do than doing long division?

Hint #3

Division is reverse multiplication, and factors are numbers we can multiply together to get another number.



Answers and detailed answer explanations for these problems

1
of 6

Explain what it means if a number is divisible by another number.

Answer key: A, C, E

1. Given two numbers, if you can divide the first by the second without any remainder, the first number is divisible by the second. ✓ True.
 2. One number is divisible by another, even **if you get a remainder** when you do the division operation. ✗ False. If you get a remainder, the number is not divisible by the number you used.
 3. If a large number of apples is divisible by 6, you can put all the apples into 6 even piles, and have no apples left over. ✓ True. This is equivalent to saying "if a large number is divisible by six, you will not get a remainder when dividing it by 6."
 4. A divisibility rule is a **very long way** of determining whether a given number is divisible by a fixed divisor without performing the division. ✗ False. A divisibility rule is a shorthand, or typically faster, way of figuring out divisibility without actually dividing.
 5. If one whole number is divisible by another number, then the second number is a factor of the first number. ✓ True. Factors are numbers we can multiply together to get another number.
- By the way, zero is divisible by every number because zero divided by any number is zero. Therefore, no remainder will ever exist.