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Prime Numbers

NUMBER	TYPE	FACTORS
11	PRIME	1, 11
10	COMPOSITE	1, 2, 5, 10

- 1 Explain what "being divisible by" means.
- 2 Determine which numbers are prime.
- 3 Use the sieve to find all the prime numbers.
- 4 Decide if each number is prime or composite.
- 5 Decide the possible side lengths.
- 6 Check the following statements.
- + 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 "being divisible by" means.

Choose the correct statements.

NUMBER	TYPE	FACTORS
11	PRIME	1, 11
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A prime number is a number which is only divisible by 1 and itself.

But what does "being divisible by" mean?

- A
If a number a is a multiple of another number b , then we can say that a is divisible by b .
- B
If a number a is a multiple of another number b , then we can say that b is divisible by a .
- C
11 is divisible by 1: $11 \div 1 = 11$
- D
Divisible means divisible without a remainder.
- E
10 is divisible by 4.
- F
Each even number is divisible by 2.



Hints for solving these problems

1
of 6

Explain what "being divisible by" means.

Hint #1

The multiples of 3 are: 3, 6, 9, 12, and so on...

Hint #2

Keep in mind that $12 \div 3 = 4$.



Answers and detailed answer explanations for these problems

1
of 6

Explain what "being divisible by" means.

Answer key: A, C, D, F

If a number a is a multiple of another number b , then we can say that a is divisible by b .

In other words, if $a \div b = c$, then

- a is the dividend.
- b is the divisor.
- c is the quotient.

We say that a number a is divisible by another b if there is no remainder when a is divided by b .

For instance, 14 is divisible by 7 if $14 \div 7 = 2$. But 10 is not divisible by 4 because $10 \div 4 = 2$ remainder 2.