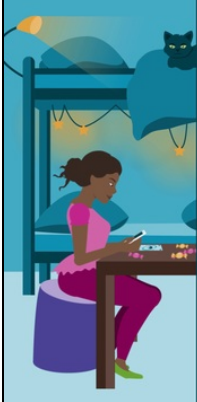




Printable Worksheets from [sofatutor.com](https://www.sofatutor.com)

# Variables



Monthly fixed cost: \$25  
1 GB data: \$15  
number of gigabytes:  $x$

$$\$25 + \$15x$$

- 1 Determine which of the following are variables.
  - 2 Complete the definition of a variable.
  - 3 Find the appropriate expression that describes the cost of Sarah's mobile phone service.
  - 4 Calculate the value for the variable  $x$ .
  - 5 Identify the correct value for  $x$  for each equation.
- + with lots of tips, answer keys, and detailed answer explanations for all of the problems.

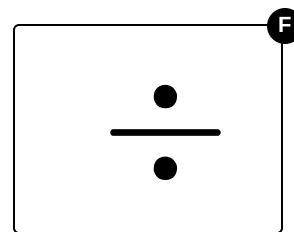
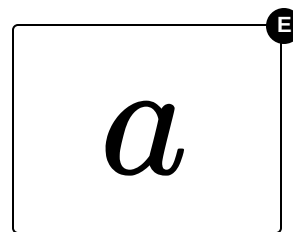
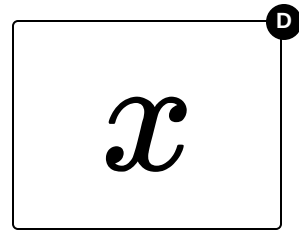
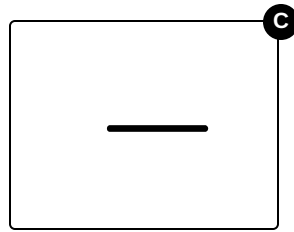
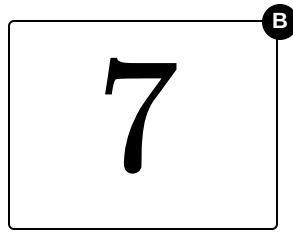
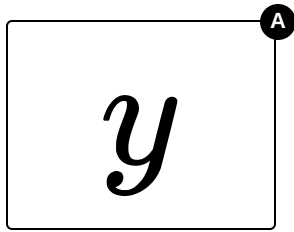


The complete package, including all problems, hints, answers, and detailed answer explanations is available for all [sofatutor.com](https://www.sofatutor.com) subscribers.



## Determine which of the following are variables.

Choose the variables.





## Hints for solving these problems

1  
of 5

**Determine which of the following are variables.**

**Hint #1**

A number isn't a variable.

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**Hint #2**

A variable is a letter or a symbol that represents a quantity that can vary.

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**Hint #3**

An operator is also not a variable.

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## Answers and detailed answer explanations for these problems

1  
of 5

### Determine which of the following are variables.

**Answer key:** A, D, E

A variable is a letter or a symbol that represents a quantity that can vary like  $x$ ,  $y$  or  $a$ , just to name a few.

In the expression  $7 - x$ , the variable is  $x$ .  $7$  is a number and therefore not a variable. The operator  $-$  and the equal sign  $=$  aren't variables either.

Depending on what we plug in for the variable  $x$ , we get different results. For example, if we plug in  $3$  for the variable  $x$  we get:

$$7 - 3 = 4$$

If we plug in  $6$  we get:

$$7 - 6 = 1$$

And so on. As you can see, the result depends on the number we plug in for the variable  $x$ .