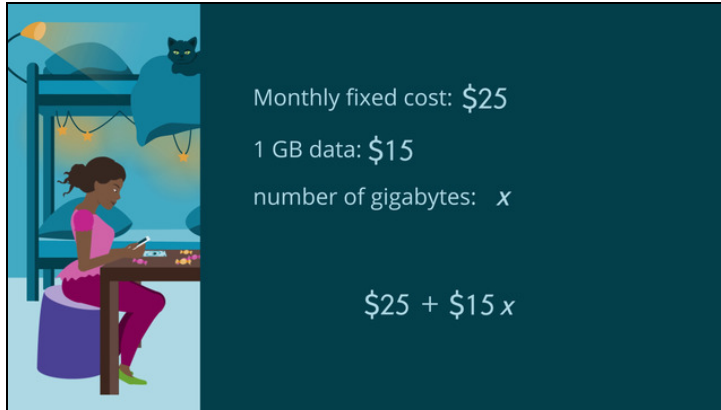


Worksheets to print out from [sofatutor.com](https://www.sofatutor.com)

Variables



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

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

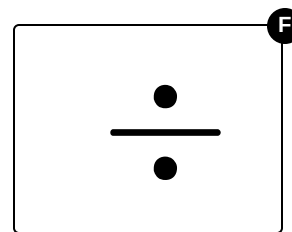
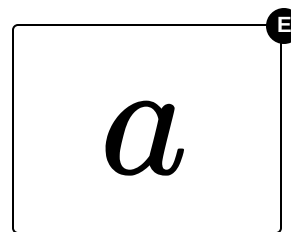
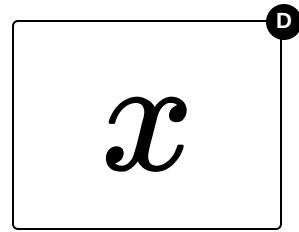
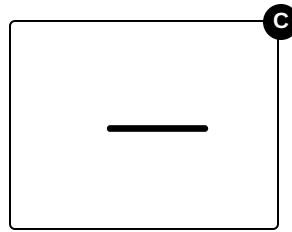
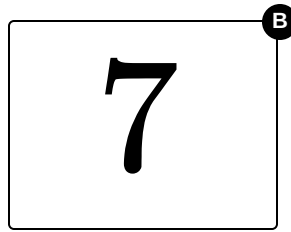
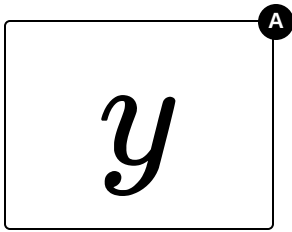
- 1 Determine which of the following are variables.
 - 2 Complete the definition of a variable.
 - 3 Find the appropriate expression that describes the cost of Sarah's mobile phone service.
 - 4 Calculate the value for the variable x .
 - 5 Identify the correct value for x for each equation.
- + with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



The complete package, including all tasks, hints, solutions, and solution approaches, is available to all subscribers of [sofatutor.com](https://www.sofatutor.com)

Determine which of the following are variables.

Choose the variables.



Our hints for the tasks

1
from 5

Determine which of the following are variables.

1. Hint

A number isn't a variable.

2. Hint

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

3. Hint

An operator is also not a variable.

Solutions and solution approaches for the tasks

1
from 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 .