





## Find three main facts about functions.

Fill in the blanks.

output   unique   range   input   domain   output   input

- 1 There is a set of all .....<sup>1</sup> values  $x$ , called the .....<sup>2</sup>.
- 2 A function  $f(x)$  changes an .....<sup>3</sup> value  $x$  into a .....<sup>4</sup> .....<sup>5</sup> value  $y$ .
- 3 The set of all .....<sup>6</sup> values  $y$  is called the .....<sup>7</sup>.

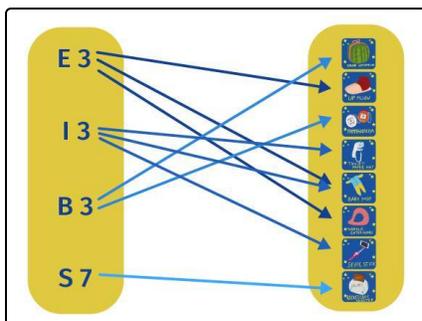


## Hints for solving these problems

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of 6

### Find three main facts about functions.

#### Hint #1



Each element of the left set is assigned to one element of the right set.

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#### Hint #2

The following is an example of a function:

you  $\rightarrow$  your age.

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#### Hint #3

Keep in mind that not every relation is a function. For example:

you  $\rightarrow$  the names of all your friends.

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## Answers and detailed answer explanations for these problems

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of 6

### Find three main facts about functions.

**Answer key:** 1: input // 2: domain // 3: input // 4: unique // 5: output // 6: output // 7: range

There are three main facts about functions:

1. There is a set of all input values  $x$ , called the domain.
2. A function  $f(x)$  changes an input value  $x$  into a unique output value  $y$ .
3. The set of all output values  $y$  is called the range.