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## Writing Equations Using Symbols

The sum of four **consecutive** integers is 46.  
Let  $x$  be the second of these integers.

$$(x - 1) + x + (x + 1) + (x + 2) = 46$$

- 1 **Assign words to their corresponding mathematical symbol.**
- 2 Explain writing equations using variables.
- 3 Write expressions using variables.
- 4 Identify math keywords and the algebraic equation corresponding to the given sentence.
- 5 Write the algebraic equations corresponding to the given statement.
- 6 Translate the word problems into algebraic equations.
- + 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.



## Assign words to their corresponding mathematical symbol.

Match the keyword with the correct mathematical symbol.

1	2	3	4
Quotient	Sum	Twice	Difference
5	6	7	8
Doubled	Decrease	Increase	Half

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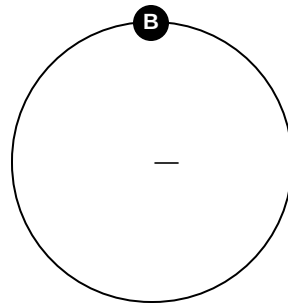
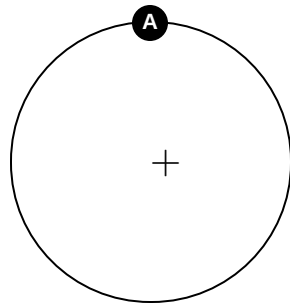
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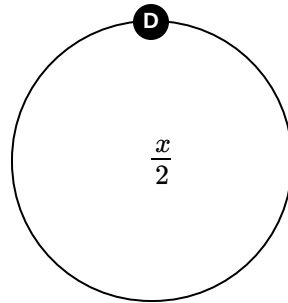
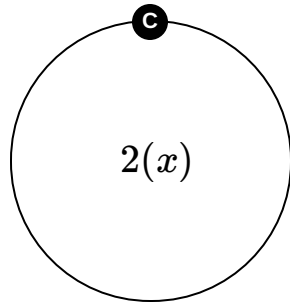
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## Hints for solving these problems

1  
of 6

### Assign words to their corresponding mathematical symbol.

#### Hint #1

- **Increase** means to make **greater** in size.
  - **Decrease** means to become **smaller** in size.
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#### Hint #2

A number that is **tripled** is represented by  $3(x)$ .

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#### Hint #3

To cut in half, means to divide by  $2$ .

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## Answers and detailed answer explanations for these problems

1  
of 6

### Assign words to their corresponding mathematical symbol.

**Answer key:** A: 2, 7 // B: 4, 6 // C: 3, 5 // D: 1, 8

1. +

- **Increase** means to make **greater** in size.
- **Sum** is the result of **adding** numbers.

2. —

- **Decrease** means to become **smaller** in size.
- **Difference** is the result of **subtracting** one number from another.

3.  $2(x)$

- **Doubled** means to **multiply** by 2.
- **Twice** means to **multiply** by 2.

4.  $\frac{x}{2}$

- **Quotient** is the answer after you **divide** one quantity by another.
- **Half** means to **divide** by 2.