

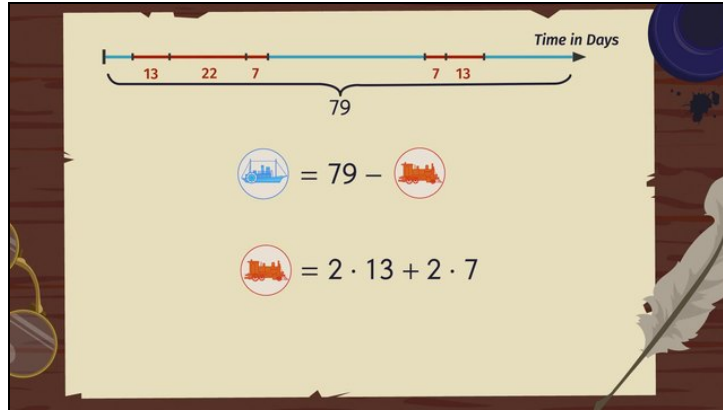


Worksheet: Understanding Equations

Mathematics / Middle School / Expressions and Equations / Solve Problems Using Expressions, Equations, and Inequalities / Understanding Equations

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Understanding Equations



- 1 **Decide if the statement is true or false.**
- 2 Determine the number of days Phineas Fogg will travel by steamer.
- 3 Examine the costs of Phineas Fogg's trip.
- 4 Identify the solutions of the equations.
- 5 Examine the equation and solve it.
- 6 Find the solution to the word problem.
- + 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.



Decide if the statement is true or false.

Choose the correct statements.

- $2 \times 13 + 2 \times 7 + 22$ is an expression. **A**
- $2 \times 13 + 2 \times 7 + 22$ is an equation. **B**
- $3 \times 45 + 5 \cdot \frac{2}{3} \times 45 = 285$ is an equation. **C**
- An equation has an equals sign. **D**
- Only expressions can be added together. **E**
- $79 - 62$ is an expression. **F**



Hints for solving these problems

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Decide if the statement is true or false.

Hint #1

An expression is a meaningful arrangement of numbers, variables, and operation signs.

Hint #2

A number is an expression.

The addition, subtraction, multiplication, or division of expressions is an expression too.

Hint #3

In an equation, there are expressions on the left-hand side as well as the right-hand side of an equals sign.



Answers and detailed answer explanations for these problems

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Decide if the statement is true or false.

Answer key: A, C, D, F

In general an expression is a meaningful arrangement of numbers, variables, and operations, as well as parentheses.

An equation contains an equals sign.

In an equation, there are expressions on the left-hand side as well as the right-hand side of an equals sign.

A single number is an expression.

Here are some examples of expressions:

- $2 \cdot 13 + 2 \cdot 7 + 22$
- $79 - 62$

These expressions are not equations because there are no equals signs.

An example of an equation is $3 \cdot 45 + 5 \cdot \frac{2}{3} \cdot 45 = 285$.