

# Reading Comprehension

## How to Solve Word Problems

What good readers do when they read?  
Good readers know what to read carefully, what to read quickly, what not to read, what to reread.

- Uncle Henry was driving to Halifax when he spotted a big green gorilla on the side of the road. He screeched to a stop, jumped out of his car. He saw the outline of a number on the gorilla. He couldn't quite see the number, but he knew it was a 4 digit number. And:
  - 1) He remembered seeing a number 1.
  - 2) In the hundred's place he remembers the number is 3 times the number in the thousand's place.
  - 3) He said the number in the one's place is 4 times the number in the ten's place.
  - 4) Finally he said the number 2 is sitting in the thousand's place.
- What is the number?
- The number is 2614.

How to Find the Solutions of Quadratic Equation  
 $3x^2 + 7x + 2 = 0$

- $a=3, b=7, C=2$

$$b^2 - 4ac$$

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

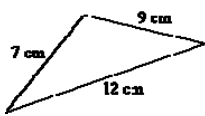
$$\frac{-7 \pm \sqrt{7^2 - 4 \cdot 3 \cdot 2}}{2 \cdot 3}$$

- **Discriminant d is greater than zero.** The equation has two solutions.
- **Discriminant is zero.** There is only one solution.
- **Discriminant is less than zero.** No solutions are defined.

- A flower garden in the yard of a colonial home is in the shape of a triangle with sides of 12, 7, and 9. The wooden beams lining the edge of the garden need to be replaced. Find the total length of wood beams that must be purchased in order to replace the old beams.


A picture is worth thousand words.

- Find the perimeter of triangle below.




### Definitions

- **Addition:** When you add two numbers together you find how many you have in all.
- **Subtraction:** Subtraction is removing some objects from a group.
- **Multiplication:** A mathematical operation that indicates how many times a number is added to itself.
- **Division:** Dividing is separating a number into several equal groups.




- Elaine has 16 pieces of candy. She went to the store and bought 15 **more** pieces. Elaine gives her sister Sally 8 pieces of candy. How many pieces of candy does Elaine have left?



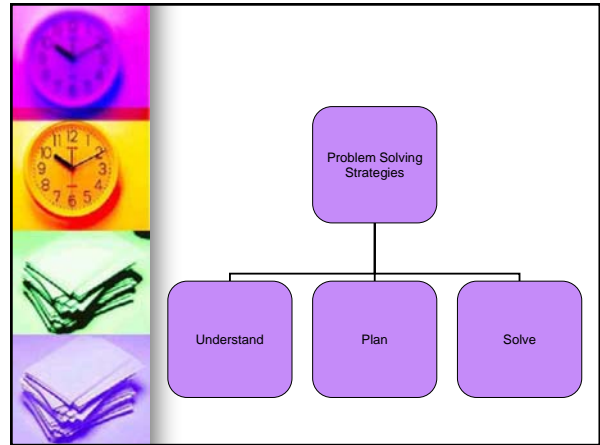

### Vocabulary

- addition, sum, plus, increase, combine, more**
- Subtract, minus, decrease, less than, difference**
- Multiplication, product, times, double, triple**
- Division, quotient, shared**



Teaching students to summarize what they read is another way to improve their overall comprehension of text.

- Stephanie had \$40.00 savings. Her mother gave her another \$30.00 and her grandmother gave her \$10.00 to buy a pair of cleats. The pair of cleats Stephanie wants costs \$54.99. If Stephanie buys the cleats at a no TAX sale, write an equation using a variable to describe the amount of money that Stephanie will have to contribute from her savings.
- Solve for the variable.

Susan has written a number pattern that begins with 1, 3, 5, 7, 9. If she continues this pattern, what are the next four numbers in her pattern?

<ul style="list-style-type: none"> <li>1) UNDERSTAND: What do you need to find? You need to find 4 numbers after 9.</li> <li>2) PLAN: How can you solve the problem? You can <u>find a pattern</u>. Look at the numbers. The new number depends upon the number before it.</li> <li>3) SOLVE: Look at the numbers in the pattern.</li> </ul>	<ul style="list-style-type: none"> <li><math>3 = 1 + 2</math> (starting number is 1, add 2 to make 3)</li> <li><math>5 = 3 + 2</math> (starting number is 3, add 2 to make 5)</li> <li><math>7 = 5 + 2</math> (starting number is 5, add 2 to make 7)</li> <li><math>9 = 7 + 2</math> (starting number is 7, add 2 to make 9)</li> <li>New numbers will be</li> <li><math>9 + 2 = 11</math></li> <li><math>11 + 2 = 13</math></li> <li><math>13 + 2 = 15</math></li> <li><math>15 + 2 = 17</math></li> </ul>
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