PLEASE DON'T SQUEEZE!! Solve ALL problems ALGEBRAICALLY using the template to set up.
DEFINE your Variable(s)
Write your Equation then solve it
Statement/Sentence

1. The length of a rectangle is 2 times its width. The area of the rectangle is $72 \mathrm{sq} . \mathrm{cm}$. Find the dimensions of the rectangle.
2. Find two consecutive integers such that the sum of their squares is 61 .
3. The ratio of the measures of the base and height of a parallelogram is $3: 4$. The area of the parallelogram is 1200 sq . cm . Find the measure of the base and the height of the parallelogram.
4. Find two consecutive negative integers such that the product is 42.
5. The length of a rectangle is 3 times its width. If the width is diminished by 1 meter and the length is increased by 3 meters, the area of the rectangle that is formed is 72 meters squared. Find the dimensions of the original rectangle.
6. The larger of 2 integers is 5 more than twice the smaller integer. The product of the integers is 52 . Find the integers.
7. The measure of one leg of a right triangle exceeds the measure of the other leg by 7 meters. The hypotenuse of the triangle is 13 meters. Find the measurements of the legs.
8. The ages of 3 children in a family can be expressed as consecutive integers. The square of the age of the youngest child is 4 more than 8 times the age of the oldest child. Find the ages of the three children.
9. In a trapezoid, the smaller base is 3 more than the height. The larger base is 5 less than 3 times the height and the area is $45 \mathrm{sq} . \mathrm{cm}$. Find the height of the trapezoid.
10. Find two positive integers whose ratio is $2: 3$ and whose product is 600 .
