

AIM: SOLVING WORD PROBLEMS USING QUADRATIC EQUATIONS (Day 1)

1. Find three consecutive positive integers such that the product of the 1st and second is equal to 20.

Step 1: Write a legend from the question.

$$= 1^{st} C.P.I.$$

$$= 2^{nd} C.P.I.$$

$$= 3^{rd} C.P.I.$$

Step 2: Translate the question into an equation
Step 3: Solve the equation
Step 4: Plug solution into the legend
Step 4: Check

2. The larger of two positive integers is 3 more than the smaller. If the product of the two numbers is 88, what are the two numbers?

Step 1: Write a legend from the question.Step 2: Translate the question into an equationStep 3: Solve the equationStep 4: Plug solution into the legendStep 4: Check

3. Find three consecutive positive EVEN integers such that the product of the 2nd and 3rd integer is equal to 22 more than the 1st.

Step 1: Write a legend from the question.

$$= 1^{st} C \cdot P \cdot I.$$
$$= 2^{nd} C \cdot P \cdot I.$$
$$= 3^{rd} C \cdot P \cdot I.$$

Step 2: Translate the question into an equation

Step 3: Solve the equation

Step 4: Plug solution into the legend

Step 4: Check

4. The square of a positive number is 20 more than the number itself. What is the number?

Step 1: Write a legend from the question.Step 2: Translate the question into an equationStep 3: Solve the equationStep 4: Plug solution into the legendStep 4: Check