

Problem-Solving Strategy: Use Logical Reasoning

Problem The GCF of two numbers is 5. The LCM of the same two numbers is 75. The numbers differ by 10. What are the numbers?

UNDERSTAND

What is the question?

What facts does the problem give you?

PLAN

How can you use logical reasoning to solve this problem?

SOLVE

Draw a Venn diagram and put the GCF in the Venn diagram.

What is the prime factorization of 75?

Which pair of factors have a difference of 10 and a GCF of 5?

What is the solution?

LOOK BACK

How can you check your answer?
