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```
def count_unique_triplets(arr, m):
      n = len(arr)
      if n < 3:
          return 0 # Not enough elements for a triplet
      arr.sort() # Sort the array
      unique_triplets = set() # Set to store unique triplets
      for i in range(n - 2):
          # Avoid duplicates for the first element of the triplet
          if i > 0 and arr[i] == arr[i - 1]:
              continue
          left = i + 1
          right = n - 1
          while left < right:
              product = arr[i] * arr[left] * arr[right]
              if product == m:
                  # Add the triplet to the set
                  unique_triplets.add((arr[i], arr[left], arr[right]))
                  # Move both pointers
                  left += 1
                  right -= 1
                  # Avoid duplicates for the second element of the triplet
                  while left < right and arr[left] == arr[left - 1]:</pre>
                      left += 1
                  # Avoid duplicates for the third element of the triplet
                  while left < right and arr[right] == arr[right + 1]:</pre>
                      right -= 1
              elif product < m:</pre>
                  left += 1 # We need a larger product
              else:
                  right -= 1 # We need a smaller product
      return len(unique_triplets)
  # Input reading
  n = int(input().strip())
  arr = list(map(int, input().strip().split()))
  m = int(input().strip())
  # Calculate the result and print
  result = count unique triplets(arr, m)
  print(result)
6 / 6 Test Cases Passed | 100 %
```

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