77

Explanation:

```
6=2^1 \times 3^1
           sum=1*arr[2]+1*arr[3]=1*32+1*45=77
         Source Code:
           from collections import defaultdict
           def prime_factors(num):
               factors = defaultdict(int)
               while num % 2== 0:
                   factors[2]+= 1
                   num //= 2
               for i in range(3,int(num**0.5)+ 1,2):
                   while num % i == 0:
                      factors[i] += 1
               if num > 2:
                   factors[num] += 1
               return factors
           def calculate_prime_imdex_sum(arr,num):
               if not arr:
                   return-1
           factors = prime_factors(num)
           total_sum = 0
           valid_prime_found = False
           for prime,power in factors,items():
               if prime
RESULT
```

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