1. What is the sum of the digits of the positive integer n where $\mathrm{n}<99$ ?
(1) $n$ is divisible by the square of the prime number $y$.
(2) $y^{4}$ is a two-digit odd integer.
A. Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.
B. Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT sufficient.
C. BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient
D. Each statement ALONE is sufficient to answer the question.
E. Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.

The correct answer is C.

1. 2. If x is a positive integer, is $\mathrm{x}!+(\mathrm{x}+1)$ a prime number?
(1) $x<10(2) x$ is even
A. Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.
B. Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT sufficient.
C. BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient
D. Each statement ALONE is sufficient to answer the question.
E. Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.

The correct answer is E .
3. Is $\sqrt{ }(x+y)$ an integer?
(1) $x 3=64(2) x 2=y-3$
2. Statement 1 ALONE is sufficient to answer the question, but statement 2 alone is NOT sufficient.
3. Statement 2 ALONE is sufficient to answer the question, but statement 1 alone is NOT
sufficient.
4. BOTH statements 1 and 2 TOGETHER are sufficient to answer the question, but NEITHER statement ALONE is sufficient
5. Each statement ALONE is sufficient to answer the question.
6. Statement 1 and 2 TOGETHER are NOT sufficient to answer the question.

The correct answer is C.
4. How many prime numbers between 1 and 100 are factors of 7,150 ?
A. One
B. Two
C. Three
D. Four
E. Five

Answer: D.

