- What is the sum of the digits of the positive integer n where n < 99?
 (1) n is divisible by the square of the prime number y.
 (2) y⁴ 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.

- 2. If x is a positive integer, is x! + (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) x3 = 64 (2) x2 = 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.