

Advanced Numerical Reasoning Appraisal Sample Questions

Test 1: Comparison of Quantities

DIRECTIONS

This test requires you to compare two quantities, A and B. For some of the test questions, additional information is given that should be used in your determination of quantity. The answer options for each question are labeled A, B, E, and I.

- A:** The quantity under A is greater than the quantity under B.
- B:** The quantity under B is greater than the quantity under A.
- E:** The quantities under A and B are equal.
- I:** The information given is insufficient to make the comparison.

EXAMPLES

1.

A	B
The price of 2 pounds of sugar at 46 cents per pound.	The price of 3 pounds of sugar at 31 cents per pound.

- A. The quantity under A is greater than the quantity under B.
- B. The quantity under B is greater than the quantity under A.
- E. The quantities under A and B are equal.
- I. The information given is insufficient to make the comparison.

Two pounds of sugar at 46 cents per pound cost 2×46 cents = 92 cents. Three pounds of sugar at 31 cents per pound cost 3×31 cents = 93 cents. As 93 cents is greater than 92 cents, the quantity under B is greater. Therefore, the correct answer is B.

2. **A bag contains 3 black balls, 2 red balls, and 1 green ball that are all the same size and shape.**

A	B
The probability of randomly picking a black ball.	The probability of randomly picking a ball that is not black.

- A. The quantity under A is greater than the quantity under B.
- B. The quantity under B is greater than the quantity under A.
- E. The quantities under A and B are equal.
- I. The information given is insufficient to make the comparison.

The probability of randomly picking 3 balls out of 6 is 0.5, and this is true whatever the color of balls picked. Therefore, the quantities under A and B are equal, and the correct answer is E.

Test 2: Sufficiency of Information

DIRECTIONS

In this test, you are given a question and two statements labeled (1) and (2) that provide certain information. You are to decide if the information in the two statements, either separately or in combination, is sufficient to answer the question.

Use the information given in the statements, plus your everyday knowledge of the world and mathematics, to answer each question. The answer options for each question are labeled A, B, C, D, and E.

A: Statement 1 ALONE is sufficient, but statement 2 alone is not sufficient to answer the question.

B: Statement 2 ALONE is sufficient, but statement 1 alone is not sufficient to answer the question.

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 asked.

E: Statements 1 and 2 together are NOT sufficient to answer the question asked.

EXAMPLES

1. Sean is worth his weight in gold. How heavy is he?

(1) Sean is lighter than any of his brothers or sisters.

(2) One of Sean's sisters weighs 82 pounds.

- A. Statement 1 ALONE is sufficient, but statement 2 alone is not sufficient to answer the question.
- B. Statement 2 ALONE is sufficient, but statement 1 alone is not sufficient to answer the question.
- 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 asked.
- E. Statements 1 and 2 together are NOT sufficient to answer the question asked.

Statement 1 only tells us about Sean's weight in comparison to his brothers and sisters.

Statement 2 only tells us about the weight of one of his sisters. Hence neither of the statements, either separately or together, is sufficient for us to answer the question, and the correct answer is E. (The fact that Sean is worth his weight in gold is irrelevant.)

2. How much faster is a jet than a propeller driven aircraft?

(1) The propeller driven aircraft flies at 300 mph.

(2) The jet flies at 900 kph (1 kph = 1.609344 mph).

- A. Statement 1 ALONE is sufficient, but statement 2 alone is not sufficient to answer the question.
- B. Statement 2 ALONE is sufficient, but statement 1 alone is not sufficient to answer the question.
- 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 asked.
- E. Statements 1 and 2 together are NOT sufficient to answer the question asked.

This question is about relative speed. Statement 1 tells us the speed of one of the aircraft.

Statement 2 gives us the speed of the other aircraft. Neither of these statements on its own is sufficient to answer the question. But we can answer the question with both pieces of information taken together. Hence the correct answer is C.