SCAT

Advanced

Sample

Test

Quantitative battery

1. Which column is bigger?

Column A	Column B
The smallest odd natural number	The smallest prime number

    A. Column A is greater
    B. Column B is greater
    C. The two parts are equal
    D. Not enough information is given

2. Which column is bigger?

The imaginary number i is defined as $i^2 = -1$

Column A	Column B
i^0	i^2

    A. Column A is greater
    B. Column B is greater
    C. The two parts are equal
    D. Not enough information is given

3. Which column is bigger?

Jonathan walks at a varying rate of 400 to 600 meters per hour

Column A	Column B
The distance Jonathan walked in two hours and 30 minutes	1.2 Kilometer

A. Column A is greater
B. Column B is greater
C. The two parts are equal
D. Not enough information is given

Verbal Battery

1. The given pair of words is related to each other in a certain way. Choose the pair of words that is related to each other in the same way.

   Counselor : advice **::**

   A. benefactor : aid
   B. arbitrator : settlement
   C. conqueror : win
   D. lawyer : request

2. The given pair of words is related to each other in a certain way. Choose the pair of words that is related to each other in the same way.

Procrastinate : delay ::

   A. exemplary : symbol
   B. Restrain : median
   C. abstain : moderate
   D. Abbreviate : shorten

3. The given pair of words is related to each other in a certain way. Choose the pair of words that is related to each other in the same way.

Olive press : olive ::

   A. brewery : beer
   B. Churn : milk
   C. Beehive: honey
   D. Printer : page

Solutions and Explanations

Quantitative

1. The correct answer is **B**.

   In column A, the smallest odd natural number is 1.
   In column B, the smallest prime number is 2.
   Note that 1 is not a prime number, since by definition, a prime number is greater than 1.
   Therefore, the part in column B (2) is greater than the part in column A (1).

2. The correct answer is **A**.
   In column A, $i^0 = 1$, as any number to the power of 0 is 1.
   In column B, i^2 is defined as $i^2 = -1$.
   Therefore, the part in column A (1) is greater than the part in column B (-1).

3. **The correct answer is D.**

   In column A, since Jonathan doesn't walk at a constant speed, the distance he walks is a range. First, find the maximum and minimum distances Jonathan walks.
   The minimum distance if he walked the two and a half hours at the rate of 400 meters per hour is: $2.5 \times 400 = 1000$ meters.
   The maximum distance if he walked the two and a half hours at the rate of 600 meters per hour is: $2.5 \times 600 = 1500$ meters.

   In column B, the distance is in Kilometers. 1 kilometer is 1000 meters. That is, 1.2 kilometer is 1200 meters.
   Since 1200 meters is in the range of the distance Jonathan walks, there is not enough information, and **the correct answer is D.**

Verbal

1. The correct answer is: **benefactor : aid**.

   A counselor provides advice as a benefactor provides aid.

2. The correct answer is: **abbreviate: shorten.**

   Procrastinate and delay are synonymous
   as abbreviate and shorten are synonymous.

3. The correct answer is: **churn : milk**.

   Olive is the raw material used in an olive press, as milk is the raw material used a churn (churn is the device used to convert milk to butter).

   Brewery : beer and beehive : honey are both incorrect because the analogy includes the product and not the raw material used.