

## 11<sup>th</sup> grade Demo

### Read the text and answer the questions.

Algebra, algorithm, quadratic equation, sine function... just some of the terms which would not be known to us but for Al-Khwarizmi, an astronomer, geographer and founder of several branches and basic concepts of mathematics.

The terms Algebra and Algorithm are familiar to all of us but how many have heard of their originator Muhammad Al-Khwarizmi. In Geography he revised and corrected Ptolemy's view and produced the first map of the known world in 830 CE. He worked on measuring the volume and circumference of the earth, and contributed to work related to clocks, sundials and astrolabes.

His full name is Abu Abdullah Muhammad ibn Musa Al-Khwarizmi. The last-mentioned name refers to his birthplace, Khwarazm, south of the Aral Sea. He was born around 780 in the town of Kath part of Khwarazm. Kath is now buried in the sand. He died around 850. He was summoned to Baghdad by Caliph Al-Mamun and appointed court astronomer. From the title of his work, Hisab Al-Jabr wal Muqabalah (Book of Calculations, Restoration and Reduction), Algebra (Al-Jabr) derived its name.

Al-Khwarizmi emphasized that he had written his algebra book to serve the practical needs of the people concerning the matters of inheritance, legacies, partition, law suits and commerce. He considered his work as worship to God.

**1. Choose the right synonym to the word in capital letters from the statement:** "A founder of several branches and BASIC CONCEPTS of mathematics".

- A fundamental notions
- B hard principles
- C different ideas
- D science fictions

**2. Choose the right antonym to the word with capital letters from the statement:** "In Geography he REVISED and corrected Ptolemy's view and produced the first map of the known world in 830 CE."

- A worsened
- B reviewed
- C received
- D modified

**3. Choose the odd word.**

- A destroyer
- B father
- C developer
- D inventor

**4. Choose the right meaning to the statement:** "He worked on measuring the volume and circumference of the earth, and contributed to work related to clocks, sundials and astrolabes."

- A He contributed to work on clocks, sundials, and astrolabes, as well as determining the volume and circumference of the earth.
- B He worked on increasing the volume and circumference of the earth, and contributed to work related to clocks, sundials and astrolabes.
- C He was employed for measuring the extent and circumference of the earth, and contributed to work associated with clocks, sundials and astrolabes.
- D He worked on teaching the volume and circumference of the soil, and contributed to work related to clocks, sundials and astrolabes.

**5. Choose the right meaning to the statement: “Kath is now buried in the sand.”**

- A Kath has been hidden deep in the sand.
- B Kath has been located in the sand.
- C Kath has been buried beneath the sand.
- D Kath is presently well-known within the sand.

**6. Choose the opposite meaning to the statement: “Al-Khwarizmi emphasized that he had written his algebra book to serve the practical needs of the people concerning the matters of inheritance.”**

- A Al-Khwarizmi minimized that he had made up his book to serve the unrealistic problems of the people regarding the matters of inheritance.
- B Al-Khwarizmi stressed that he wrote his algebra book to meet people's practical demands in the areas of inheritance.
- C Al-Khwarizmi highlighted that he published his algebra book to answer people's practical demands in the areas of succession.
- D Al-Khwarizmi emphasized that he had written his algebra book to serve the realistic wishes of the people regarding the matters of inheritance.

**7. Find the right sentence changed into the Passive Voice: “From the title of his work, Hisab Al-Jabr wal Muqabalah (Book of Calculations, Restoration and Reduction), Algebra (Al-Jabr) derived its name.”**

- A The name Algebra (Al-Jabr) was given from the title of his work, Hisab Al-Jabr wal Muqabalah (Book of Calculations, Restoration, and Reduction).
- B Algebra (Al-Jabr) gets its name from the title of his work, Hisab Al-Jabr wal Muqabalah (Book of Calculations, Restoration, and Reduction).
- C From the title of his paintings, Hisab Al-Jabr wal Muqabalah (book of Calculations, recuperation and discount), Algebra (Al-Jabr) derived its call.
- D The name Algebra (Al-Jabr) has been given from the title of his work, Hisab Al-Jabr wal Muqabalah (Book of Calculations, Restoration, and Reduction).

**8. Find the correct word to the definition: “A person who creates or initiates something.”**

- A originator
- B plagiarist
- C astronomer
- D scientist

**9. Find the TRUE statement from the text.**

- A Caliph Al-Mamun invited him to Baghdad and appointed him court astronomer.
- B Algebra (Al-Jabr) gets its name from the title of Ptolemy's view and produced the first map.
- C Al-Khwarizmi produced the first map of the acknowledged international in 830 CE.
- D Al-Khwarizmi considered his work as worship to Caliph Al-Mamun.

**10. Find the FALSE statement from the text.**

- A In Geography he revised and corrected Ptolemy's view and produced the first map of the acknowledged international in 850 CE.
- B Kath is presently buried within the sand.
- C He considered his work as reverent to God.
- D The final-mentioned call refers to his birthplace, Khwarazm, south of the Aral Sea.