

Mathematics

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(Chapter – 5) (Introduction to Euclid's Geometry)(Exemplar Problems)
(Class – IX)

Exercise 5.2

Write whether the following statements are **True** or **False**? Justify your answer:

Question 5:

If a quantity B is a part of another quantity A, then A can be written as the sum of B and some third quantity C.

Answer 5:

True

Since, it is one of the Euclid's axioms.

Some of Euclid's axioms:

- 1) Things which are equal to the same thing are equal to one another.
- 2) If equals are added to equals, the wholes are equal.
- 3) If equals are subtracted from equals, the remainders are equal.
- 4) Things which coincide with one another are equal to one another.
- 5) The whole is greater than the part.
- 6) Things which are double of the same things are equal to one another.

Things which are halves of the same things are equal to one another.

Axiom (5) gives us the definition of 'greater than'. For example, if a quantity B is a part of another quantity A, then A can be written as the sum of B and some third quantity C. Symbolically, $A > B$ means that there is some C such that $A = B + C$

