

# Mathematics

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(Chapter – 7) (Triangles)(Exemplar Problems)  
(Class – IX)

## Exercise 7.1

Write the correct answer in each of the following:

### Question 8:

Two sides of a triangle are of lengths 5 cm and 1.5 cm. The length of the third side of the triangle cannot be

- (A) 3.6 cm                      (B) 4.1 cm                      (C) 3.8 cm                      (D) 3.4 cm

### Answer 8:

- (D) 3.4 cm

### Solution:

Given that: Two sides of triangle are 5 cm and 1.5 cm.

We know that *the sum of two sides of the triangle is always greater than the third side.*

Hence, 3.4 cm cannot be the third side. If it is the third side the sum of 3.4 cm and 1.5 cm will be smaller than 5 cm, so, the triangle will not be possible.

Hence, the option (D) is correct.

