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Sub-Maths

Class-7

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Topic-Construction of triangle.

A triangle can be constucted when ether of the the following three measurement are give:

1. Three sides
2. Two sides and the angle include between the sides (SAS).
3. Two angles and the side include between the angles (ASA)
4. A right angle, the hypotenuse and one of other two sides (RHS)

S.S.S. Triangle Construction

When three sides of a triangle are given, we first draw a rough sketch to give an idea of figure then

We start the construction by drawing any one of the sides. Before starting the construction, we first check the triangle inequality property i. e. the sum of any two sides should be greater than the third side (for this it is enough to check that some of the two smaller side is greater than the third side)

EX-14

1. Construct a triangle XYZ in which XY :4.5 CM VZ:5 cm and ZX:6 cm. 2. Can you construct triangle with the following measures given.

(a) AB-4cm, BC-5cm, AC-9cm

(b) (b) AB-5cm, BC-5cm, PR-4cm

(C)AB-5cm, BC-2cm, AC-2cm

(d) PQ-6cm, QR-6cm, PR-4cm.