Worksheet of Class - VIII
Subject- Mathematics (Volume-2)
Ch- 2 The Baudhayana-Pythagoras Theorem

Q1 Tick (✓) the correct option
a) In a right-angled isosceles triangle the two equal sides are each of length a. The length of the hypotenuse is
i) a ii) 2a iii) √2 a iv) √a

b) Pythagoras theorem is applicable to which type of triangle ?
i) Equilateral triangle
ii) Isosceles triangle
iii) Right-angled triangle
iv) Scalene triangle

c) In a Baudhayana triple (a,b,c) which number represents the hypotenuse ?
i) The smallest number
ii) The middle number
iii) The largest number
iv) Any number

d) Identify which of the following triples are scaled versions of (5,12,13)
a) (20,48,52) b) (15,20,25)
c) (30,72,78) d) None of these.

Q2 The diagonal of a rectangular field is 50m and one side is 30m. find the area of the field.

Q3 A ship sails 24 km east and then 7 km north. How far is it from its starting point?

Q4 Find all primitive Baudhayana triples with hypotenuse less than 20

Q5 Generate four Scaled versions of the primitive triple (5,12,13)

Q6 Find the hypotenuse of a right-angled triangle whose other two sides are 6cm and 8cm.

Q7 Prove using Pythagoras theorem that in an isosceles right triangle the hypotenuse is times either of the equal sides.

Q8 The equal sides of an isosceles right triangle are 6cm. find bounds for the hypotenuse correct to one decimal place.

Q9 The hypotenuse of an isosceles right triangle is 8 units. Find the lengths of the other two sides.

Q10 A flagstaff is broken at a point 5 m above the ground. The top touches the ground 12 m away from the foot of the pole. Find the original height of the flagstaff.