S.NO	QUESTIONS
1	**Name the altitudes of right triangle in the Pythagorean triplet (9, 12, 15).**
2	**Find the Measures of the angles of a triangle in the following cases:** **a) One of the angles is 110° and the other two angles are equal.** **b) The three angles are equal to one another.**
3	**Check whether the following can be the sides of a right angled triangle or not.** **a) (9, 12, 15)** **b) (5, 8, 10)**
4.	**The lengths of two sides of a right triangle are 12cm and 16 cm respectively. Find the length of the hypotenuse.**
5.	**Check whether the following can be the sides of a triangle or not.** **a) (5, 6, 12)** **b) (3, 7, 4)**
6.	**In a right angled triangle PQR, the two acute angles P and R are in the ratio 3 : 2. Find these angles.**
7	**A ship leaves a port and travels 12 km due east. Then it turns and travels 9 km north. How far is the ship from the port?**
8	**In a right triangle, apart from the right angle, the other two angles are x+1 and 2x+5.** **Find the angles of the triangle.**
9	**Find the missing number in the Pythagorean triplets: a) 6, ?, 10 b) 10, 24, ?**
10	**The exterior angle of a triangle is 110° and its interior opposite angles are equal in measure. Find the measure of all the angles of the triangle.**
11	**In a triangle, if the second angle is twice the first angle and the third angle is thrice the first angle, find the angles of the triangle.**

| 12. | Find the missing values in the following figures: |

a)

P

60°

x   55°

Q   R

y

b)

15 cm

m

12 cm

c)

y

60°   x

d)

5cm

b

3 cm

e)

p

q   r

110°

f)

x

24cm

25 cm

g)

13 cm

5 cm

y

h)

a

5a   3a

i)

5x

2x   3x

J)

z

5 cm   5 cm

65°