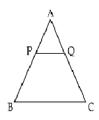
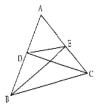
X SIMILAR TRIANGLE GUESS QUESTIONS FOR SA-1

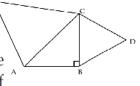
- ¹ The diagonals of a trapezium ABCD with AB|| DC intersect each other at point O. If AB = 2CD, find the ratio of the areas of triangles AOB and COD.
- ² If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, prove that the other two sides are divided in the same ratio.
- ³ Prove that in a triangle if the square of one side is equal to the sum of the squares of the other two side then the angle opposite to the first side is a right angle.
- 4 In ΔABC, in fig. a PQ meets AB in P and AC in Q. If AP=1 cm, PB=3cm, AQ=1.5 cm QC=4.5 cm, prove that area of ΔAPQ is one sixteenth of the area of ΔABC.



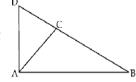
- ⁵ Prove that in a right triangle, the square of the hypotenuse is equal to the sum of the squares of the other two sides.
- ⁶ Prove that the ratio of the areas of two similar triangles is equal to the square of the ratio of their corresponding sides.
- ⁷ In fig. , Δ ABE ≅ Δ ACD. Prove that Δ ADE ~ Δ ABC



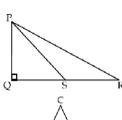
- In fig. , ABC is an isosceles triangle right angled at B. Two equilateral triangles are constructed with side BC and AC. Prove that $ar \Delta BCD = 1/2$ $ar \Delta ACE$
- ¹² Prove that the equilateral triangles described on the two sides of a right-angled triangle are together equal to the equilateral triangle described on the hypotenuse in terms of their areas.



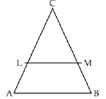
¹³ In fig. 5, ABD is a triangle in which $\angle DAB = 90^{\circ}$ and $AC \perp BD$. Prove that $AB^2 = BC \times BD$.



In fig. PQR is a right angled triangle in which $\angle Q = 90^{\circ}$. If QS = SR, show that $PR^2 = 4PS^2 - 3PQ^2$



¹⁵ In fig. LM||AB. If AL = x - 3, AC = 2x, BM = x - 2, BC = 2x + 3, find the value of x.



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