

AP SSC Mathematics Guess Paper 2025

Section I: 1 Mark Questions

Ques. Write Euclid's Division lemma

Ques. State Pythagoras Theorem

Ques. If $\sin A = \cos B$, then $A+B=.....$

Ques. Find the median of the data 8, 14, 3, 5, 12, 6, 9, 3

Ques. Find the prime factorization of 140

Ques. the degree of the quadratic polynomial is _____.

Ques. Define Thales theorem.

Section II: 2 Marks Questions

Ques. Create two questions on the polynomial $p(x) = x^2 + 7x + 10$

Ques. If the points A(6,1), B(8,2), C(9,4) and D (p,3) are the vertices of a parallelogram, then find p.

Ques. Find the volume of the sphere of radius 2.1 cm.

Ques. Write the formula to find the sum of 'n' terms of A.P. and explain the terms in it.

Ques. Find the quadratic polynomial for zeroes 2, -1.

Section III: 4 Marks Questions

Ques. Solve: $3^x = 5^{x-2}$

Ques. The length of the shadow of a 15 m high pole is $5\sqrt{3}$ m at 7'0 clock in the morning. Draw a diagram for the data.

Ques. Find the 12th term of a GP, whose 8th term is 192 and the common ratio is 2.

Ques. Find two consecutive positive integers, sum of whose square is 365.

Ques. How many three-digit numbers are divisible by 7?

Section IV: 8 Marks Questions

Ques. Prove that $\sqrt{2}$ is irrational.

Ques. A chord of a circle of radius 10 cm subtends a right angle at the centre. Find the area of the Corresponding.

Ques. Solve the equation graphically. $2x+y-5=0$ and $2x-2y-4=0$.

Ques. Check whether 301 is a term of the list of numbers 5, 11, 17, 23,

Ques. Find the area of the triangle formed by the points (8,-5), (-2, -7) and (5,1) by using Heron's formula.