

ক-বিভাগ: বীজগণিত

১. ▶  $x^2 + \frac{1}{x^2} = \frac{17}{4}$

ক. উৎসাহকে বিশ্লেষণ কর:  $x^4 + x^2 - 42$

খ.  $\sqrt{x} - \frac{1}{\sqrt{x}}$  এর মান নির্ণয় কর।

গ. প্রমাণ কর যে,  $8x^4 - 63x^2 - 8 = 0$

২. ▶  $P = \sqrt[3]{8}, Q = 8, R = \sqrt[3]{27}, M = \frac{8}{9}$

ক. দেখাও যে,  $\log 45 = 2\log 3 + \log 5$

খ. প্রমাণ কর যে,  $\frac{\log \sqrt{15} + \log \sqrt{10} - \log 8}{\log 16 - \log 9} = \frac{1}{2}$

গ.  $\frac{P^{12}}{R^3} = \left(\frac{Q}{M}\right)^{18} = 16^x$  হলে  $x$  এর মান নির্ণয় কর।

৩. ▶  $(x+y)^2(y^2+z^2) = (y+z)^2(x^2+y^2)$  এবং  $p = \frac{4m}{m^2+1}$

ক.  $a:b=3:2$  এবং  $b:c=3:2$  হলে  $a:b:c$  নির্ণয় কর।

খ. প্রমাণ কর যে,  $x, y, z$  ক্রমিক সমান্তরাল।

গ. দেখাও যে,  $m = \frac{\sqrt{2+p} + \sqrt{2-p}}{\sqrt{2+p} - \sqrt{2-p}}$

খ-বিভাগ: জ্যামিতি

৪. ▶  $\Delta PQR$  এর  $PQ$  ও  $PR$  বাহুর মধ্যবিন্দু যথাক্রমে  $M$  ও  $N$

ক. তথ্যানুসারে চিত্রটি আঁক।

খ. প্রমাণ কর যে,  $\Delta$  ক্ষেত্র  $PQR$ -এর ক্ষেত্রফল = ৪Δক্ষেত্র  $PMN$  এর ক্ষেত্রফল।

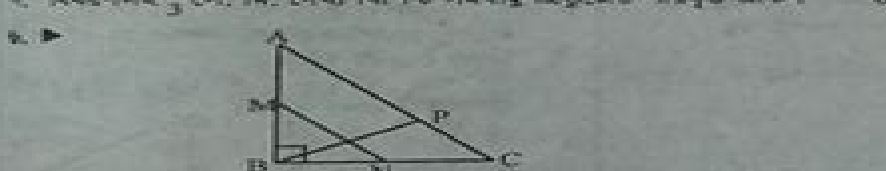
গ. প্রমাণ কর যে,  $QR = 2MN$

৫. ▶  $\angle x = 50^\circ, \angle y = 60^\circ$  এবং  $a = 9$  সে. মি.

ক. ত্রিভুজ  $ABC$  এর সাপক্ষে  $45^\circ$  কোণ আঁক।

খ. বিবরণসহ একটি ত্রিভুজ আঁক যার কুনি সংলগ্ন কোণদ্বয়  $\angle x$  ও  $\angle y$  এর পরিসীমা  $a$

গ. বিবরণসহ  $\frac{8}{3}$  সে. মি. দৈর্ঘ্য বিশিষ্ট সমান্তর ত্রিভুজের পরিবৃত্ত আঁক।



৬.  $\Delta ABC$  এর  $AB = BC$ ,  $AC$  বাহুর ওপর  $P$  যে কোন একটি বিন্দু এবং  $MN \parallel AC$

ক.  $BC = 5$  সেমি হলে  $AC$  বাহুর দৈর্ঘ্য নির্ণয় কর।

খ. প্রমাণ কর যে,  $BM : AM = BN : CN$

গ. প্রমাণ কর যে,  $\frac{1}{2}(PA^2 + PC^2) = PB^2$

পণিত (আবশ্যিক)

সুজনশীল রচনামূলক প্রশ্ন

গ-বিভাগ: ত্রিকোণমিতি ও পরিমিতি

৭. ▶  $\frac{\tan A + \tan B}{\tan A - \tan B} = \frac{3 + \sqrt{3}}{3 - \sqrt{3}}$  এবং  $\cos A - \sin A = \sqrt{2} \sin A$

ক.  $\sin A = \frac{2}{\sqrt{3}}$  হলে  $\cos A$  এর মান নির্ণয় কর।

খ.  $x = 1, y = \sqrt{2}$  এবং  $\theta$  সূক্ষ্মকোণ হলে,  $\theta$  এর মান নির্ণয় কর।

গ. প্রমাণ কর যে,  $\frac{\cos A - \sin A}{\cos A + \sin A} = \tan A$

৮. ▶ একটি আয়তাকার জমির দৈর্ঘ্য ১০০ মিটার ও প্রস্থ ৪০ মিটার। এ জমিতে ২০ মিটার ব্যাসের (অন্তঃস্থিত ব্যাস) এবং ১৫০ ঘনমিটার আয়তনের একটি কূপ খনন করে, কূপের মাটি অবশিষ্ট জমিতে সমানভাবে বিছিয়ে দেওয়া হলো।

ক. জমিটির পরিসীমার সমান পরিসীমা বিশিষ্ট কোনো কণের কণের দৈর্ঘ্য নির্ণয় কর।

খ. কূপের ভিতরের বক্রতলের ক্ষেত্রফল নির্ণয় কর।

গ. কূপের মাটি বিছানোর পর অবশিষ্ট জমির উচ্চতা কত সেমি বুঝি পায়ে নির্ণয় কর।

৯. ▶ ৪৪ মিটার দৈর্ঘ্যের একটি খাড়া গাছের শীর্ষবিন্দুতে, ভূমিতে অবস্থিত কোনো বিন্দু  $A$  এর অবনতি কোণ  $30^\circ$ । গাছটি কণ্ডে এমনভাবে ভেঙে পেল যে ভাঙা অংশ বিছরা না হয়ে ভূমির সাথে  $30^\circ$  কোণে মিলিত হলো।

ক. ১২ সেমি পরিসীমা বিশিষ্ট সমান্তর ত্রিভুজের ক্ষেত্রফল নির্ণয় কর।

খ. ভিত্র একে গাছের গেড়া হতে  $A$  বিন্দুটির দূরত্ব নির্ণয় কর।

গ. গাছের ভাঙা অংশ ও মধ্যস্থায়ন অংশ ভূমির সাথে যে ত্রিভুজ গঠন করে তার পরিসীমা নির্ণয় কর।

ঘ-বিভাগ: পরিসংখ্যান

১০. ▶ কোন বিদ্যালয়ের ১০০ শ্রেণির ৬০(ষোলিশ) জন শিক্ষার্থীর পণিতে প্রাপ্ত নম্বর নিম্নরূপ:

৪১, ৭৪, ৬১, ৪৪, ৫২, ৬০, ৭৪, ৪১, ৬২, ৬৬, ৪২, ৬৬, ৪৬, ৬৭, ৪৭, ৪৬, ৭১, ৭৩, ৬৫, ৪২, ৩২, ৫৬, ৩০, ৭৪, ৩৪, ৭০, ৫৩, ৭২, ৭৬, ৬৪, ৪২, ৫৭, ৪৭, ৬৬, ৫২, ৪৫, ৩৭, ৩৬, ৪৩, ৪১।

ক. শ্রেণিভিত্তিক ১০ ধরে শ্রেণি সংখ্যা নির্ণয় কর।

খ. গণসংখ্যা নিবেশন সারণি তৈরি করে সাক্ষিগত পদ্ধতিতে গড় নির্ণয় কর।

গ. বর্ণনাসংখ্যা গণসংখ্যা সারণি থেকে প্রদত্ত উপাত্তের আয়তলেখ অঙ্কন কর।

১১. ▶ ১০০ শ্রেণির ৬০ জন শিক্ষার্থীর ভরের (কেজি) গণসংখ্যা নিবেশন সারণি নিম্নরূপ:

শ্রেণি ব্যাপ্তি	৪৫-৪৭	৫০-৫৪	৫৫-৫৭	৬০-৬৪	৬৫-৬৭	৭০-৭৪
গণসংখ্যা	৫	৭	১২	১৪	১০	৬

ক. ক্রমযোজিত গণসংখ্যা সারণি তৈরি কর।

খ. সারণি হতে প্রদত্ত উপাত্তের প্রকৃতক নির্ণয় কর।

গ. বর্ণনাসংখ্যা গণসংখ্যা সারণি থেকে প্রদত্ত উপাত্তের গণসংখ্যা বহুভুজ অঙ্কন কর।

১. ক.  $(x^2 + 7)(x + \sqrt{6})(x - \sqrt{6})$ ; খ.  $\frac{1}{\sqrt{2}}$

২. গ. ৫

৩. ক.  $a:b:c = 9:6:4$

৪. ক.  $5\sqrt{2}$  সে.মি.

৭. ক.  $\frac{1}{\sqrt{3}}$ ; খ.  $\theta = 45^\circ$

৮. ক. ১২২.২৪ মিটার (প্রায়); খ. ৩১৪ বর্গ মিটার; গ. ২০.৪৩ সে.মি. (প্রায়)

৯. ক.  $4\sqrt{3}$  বর্গ সে.মি.; খ.  $48\sqrt{3}$  মি.; গ. ৭৫.৭১৩ মিটার (প্রায়)

১০. ক. ৭টি; খ. ৬২

১১. খ. ৬২.১৪ (প্রায়)

# Ssc 2014 Math Suggestion Dhaka Board

**Y Pai**



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