

[দ্রষ্টব্য : 'ক' বিভাগ থেকে ২টি, 'খ' বিভাগ থেকে ২টি, 'গ' বিভাগ থেকে ১টি ও 'ঘ' বিভাগ থেকে ১টির উত্তর দিতে হবে। ডান পার্শ্ব সংখ্যা প্রস্নের পূর্বমান জ্ঞাপক।]

ক বিভাগ

১. $A = \{x \in \mathbb{N} : x, 12 \text{ এর গুণনীয়ক এবং } 3 \text{ এর গুণিতক}\}$
 $B = \{x \in \mathbb{N} : x, \text{ জোড় সংখ্যা এবং } x \leq 6\}$
 $C = \{x \in \mathbb{N} : x, \text{ বিজোড় সংখ্যা এবং } x < 7\}$
 ক. A সেটকে তালিকা পদ্ধতিতে নির্ণয় কর।
 খ. $(B - C) \times (C - B)$ নির্ণয় কর।
 গ. দেখাও যে, $P(A) \cap P(C) = P(A \cap C)$
২. x ও y দুইটি সংখ্যা যাদের যোগফল $\sqrt{5}$ এবং অন্তর $\sqrt{3}$ যেখানে $x > y$
 ক. y এর মান নির্ণয় কর।
 খ. $4xy(x^2 + y^2)$ এর মান নির্ণয় কর।
 গ. যদি $a = 2x$ হয় তবে দেখাও যে, $a^3 + \frac{1}{a^3} = \frac{63}{4}(\sqrt{5} + \sqrt{3})$
৩. $\log 2 + \log 4 + \log 16 + \dots \dots \dots n$ পদ পর্যন্ত।
 ক. ধারাটি সমান্তর না গণোত্তর? তোমার উত্তরের পক্ষে হুক্তি দাও।
 খ. ধারাটির কোন পদ $1024 \log 2$?
 গ. ধারাটির n পদের সমষ্টি $2047 \log 2$ হলে n এর মান নির্ণয় কর।

খ বিভাগ

৪. একটি ত্রিভুজের ভূমি a , ভূমি সলের একটি কোণ X এবং অপর দুই বাহুর অন্তর d .
 ক. $\angle X$ সূত্রকোণ হলে ত্রিভুজটি আঁক।
 খ. অঙ্কনের চিত্র ও বিবরণ দাও।
 গ. $\angle X$ স্থলকোণ হলে ত্রিভুজটি আঁক এবং অঙ্কনের বিবরণ দাও।
৫. PQR একটি সমকোণী ত্রিভুজ। যার $\angle P = 1$ সমকোণ। T , QR এর মধ্যবিন্দু।
 ক. প্রদত্ত তথ্য অনুযায়ী ত্রিভুজটি আঁক।
 খ. দেখাও যে, $PQ + PR > 2PT$.
 গ. প্রমাণ কর যে, $PT = \frac{1}{2} QR$

অধ্যায়-১: বাস্তব সংখ্যা

প্রশ্ন-১. ২ ও $\sqrt{7}$ দুইটি বাস্তব সংখ্যা। [রাজউক উত্তরা মডেল কলেজ, ঢাকা; বগুড়া ক্যান্টনমেন্ট পাবলিক স্কুল ও কলেজ; নওগাঁ জিলা স্কুল]

- ক. কোনটি মূলদ কোনটি অমূলদ নির্দেশ কর। ২
- খ. ২ ও $\sqrt{7}$ এদের মধ্যে দুইটি অমূলদ সংখ্যা নির্ণয় কর। ৪
- গ. প্রমাণ কর যে, $\sqrt{7}$ একটি অমূলদ সংখ্যা। ৪

উত্তর : ক. ২ মূলদ এবং $\sqrt{7}$ অমূলদ।

খ. ২.১০১১০০১১১....., ২.৩০৩৩০০৩৩৩.....এরূপ অসংখ্য অমূলদ সংখ্যা নির্ণয় করা যায়।

প্রশ্ন-২. স্বাভাবিক সংখ্যাগুলো হলো ১, ২, ৩, ৪, ইত্যাদি। [সাবেরা সোবহান সরকারি বালিকা উচ্চ বিদ্যালয়, ব্রাহ্মণবাড়ীয়া; বরগুনা সরকারি বালিকা উচ্চ বিদ্যালয়]

- ক. ক্রমিক জোড় স্বাভাবিক সংখ্যাগুলো লিখ। ২
- খ. প্রমাণ কর যে, দুইটি ক্রমিক জোড় সংখ্যার গুণফল আট দ্বারা বিভাজ্য। ৪
- গ. প্রমাণ কর যে, চারটি ক্রমিক স্বাভাবিক সংখ্যার গুণফলের সাথে ১ যোগ করলে যোগফল একটি পূর্ণবর্গ সংখ্যা হবে। ৪

উত্তর: ক. ২, ৪, ৬, ৮ ইত্যাদি।

প্রশ্ন-৩. $p = 2.4\bar{2}$, $q = 4.0\bar{8}$, $r = 12.\bar{1}$ এবং $s = 24.75$ [বিজয় গার্ল পাবলিক স্কুল, সিলেটা]

- ক. q কে সামান্য ভগ্নাংশে প্রকাশ কর। ২
- খ. $t = (p \div r) + (q \times s)$ হলে, t এর মান কত? ৪
- গ. দেখাও যে, $\sqrt{5t + 23} = s - \frac{7}{4}$ ৪

উত্তর: ক. $\frac{404}{99}$, খ. ১০১.২

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Minjie Lin



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