

সৃজনশীল অংশ : পাটিগণিত

অধ্যায় ১

১। নিচের জ্যামিতিক চিত্রগুলো একটি পাটিনের তৈরি করেছে যা সমান ঠোঙের প্রত্যেকটি নিয়ে তৈরি।

jsc math suggestion, exam question paper, model question, mcq question, question pattern, preparation for dth boards

- (ক) পাটিনের চতুর্থ চিত্রটি তৈরি করে যেনোশেখর সংখ্যা নির্ণয় কর। ২
(খ) পাটিনটি কোন বীজগণিতীয় রাশিতে সমর্থন করে তা খুঁটিয়ে উপস্থাপন কর। ৪
(গ) পাটিনটির পঞ্চাশতম চিত্র তৈরি করতে যেটি কাজটি যেনোশেখর সরকার হলে তা নির্ণয় কর। ৪

উত্তর : (ক) ২১টি (খ) $4n + 3$ (গ) ৬৪২৫

২। নিচের জ্যামিতিক চিত্রগুলো কাজি নিয়ে তৈরি করা হয়েছে।



- (ক) কাজির সংখ্যার তালিকা কর। ২
(খ) তালিকার পরবর্তী সংখ্যাটি বীজগণিত বের করবে তা ব্যাখ্যা কর। ৪
(গ) কাজি নিয়ে পরবর্তী চিত্রটি তৈরি কর এবং তোমার উত্তর যাচাই কর। ৪

উত্তর : (ক) ৪, ৭, ১০ (খ) ১৩

৩। নিচের পাটিনের কাজি নিয়ে নিচের চিত্রগুলোর পাটিন তৈরি করা হয়েছে।



- (ক) চতুর্থ পাটিনে নিচেরপাটিনের কাজির সংখ্যা বের কর। ২
(খ) পাটিনটির পরবর্তী সংখ্যাটি বীজগণিত বের করবে তা ব্যাখ্যা কর। ৪
(গ) শততম পাটিন তৈরিতে কতগুলো নিচেরপাটিনের কাজির প্রয়োজন? ৪

উত্তর : (ক) ৯টি (খ) ২০১৪টি

৪। $(n+2)$ একটি বীজগণিতীয় রাশি। (বহিঃস্থান থেকে-২০১৪)

(ক) রাশিটির ১ম ও ২য় পদ কত? ২

(খ) উদাহরণস্বরূপ অল্পসংখ্যক n এর পদের জ্যামিতিক পাটিন অঙ্কন কর এবং অঙ্কনের সত্যতা যাচাই কর। ৪

(গ) রাশিটির প্রথম ১০০ পদের সমষ্টি নির্ণয় কর। ৪

উত্তর : (ক) ৭, ১২ (খ) ২০, ৪০০

৫। নিচের সূত্র সংখ্যাগুলো লক্ষ কর : (মৌলিক থেকে-২০১৪)

(ক) $1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

৬। নিচের সূত্র সংখ্যাগুলো লক্ষ কর : (মৌলিক থেকে-২০১৪)

(ক) $1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

(ক) উপরোক্ত তালিকার পর পর দুইটি সংখ্যা নির্ণয় কর। ২

(খ) প্রথম পাটিনটির পর্যায় থেকে ১২টি সংখ্যার একটি পাটিন তৈরি কর এবং পাটিনটির বীজগণিতীয় রাশিটি লিখ। ৪

(গ) নতুন পাটিনটির ১ম ১২০টি পদের যোগফল কতের সাহায্যে নির্ণয় কর। ৪

উত্তর : (ক) ৪৮ ও ৬৬ (খ) $0, 3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, 42, 45, 48, 51, 54, 57, 60, 63, 66, 69, 72, 75, 78, 81, 84, 87, 90, 93, 96, 99$ (গ) ২১৪২০

৭। $1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

(ক) তালিকার প্রথম সংখ্যা দুটিকে কর্ণের সমষ্টিরূপে প্রকাশ কর। ২

(খ) তালিকার পরবর্তী চারটি সংখ্যা নির্ণয় কর। ৪

(গ) তালিকার ১ম ১০০টি পদের সমষ্টি নির্ণয় কর। ৪

উত্তর : (ক) $2^2 + 2^2, 2^2 + 2^2, 2^2 + 2^2$ (খ) ৩০, ৩৬, ৪০, ৪৮ (গ) ২০০০০

৮। $1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99$

(ক) উদাহরণস্বরূপ পাটিনটির পরবর্তী দুটি পদ নির্ণয় কর। ২

(খ) পাটিনটির জন্য একটি বীজগণিতীয় রাশি তৈরি করে ১০তম ও ২৫ তম পদ নির্ণয় কর। ৪

(গ) পাটিনটির ১ম ২৫টি পদের যোগফল নির্ণয় কর। ৪

উত্তর : (ক) ৩৬, ৪১ (খ) $4n^2 + 2n + 2$ (গ) ৭৮৭৫

৯। জ্ঞানমণ্ডলিক আদ্যে ৮ম শ্রেণির পণ্ডিতের প্রাচীন গ্রন্থে ৫ শ্রেণির হয়ে সুমারক ১ থেকে ১০০ পর্যন্ত আনুগত্যিক সংখ্যাগুলো লিখতে বলার সুবন সত্যিকারের সংখ্যাগুলো রোডে লিখল। এরপর তিনি উক্তক কয়েকটি

উত্তর : (ক) ২ : (খ) ৪০০০

(গ) মৌলিক সংখ্যাগুলোর ফলা : ২, ৩, ৫, ৭, ১১, ১৩, ১৭, ১৯, ২৩, ২৯, ৩১, ৩৭, ৪১, ৪৩, ৪৭, ৫৩, ৫৯, ৬১, ৬৭, ৭১, ৭৩, ৭৯, ৮৩, ৮৯, ৯৭

(ক) তালিকার পরবর্তী চারটি সংখ্যা বের কর। ৪

উত্তর : (ক) চিত্রেরপাটিন সংখ্যার পাটিন (খ) ৮, ১০, ১১, ১৩

১০। ১১, ১২, ১৩, ১৪, ১৫, ১৬, ১৭, ১৮, ১৯, ২০, ২১, ২২, ২৩, ২৪, ২৫, ২৬, ২৭, ২৮, ২৯, ৩০, ৩১, ৩২, ৩৩, ৩৪, ৩৫, ৩৬, ৩৭, ৩৮, ৩৯, ৪০, ৪১, ৪২, ৪৩, ৪৪, ৪৫, ৪৬, ৪৭, ৪৮, ৪৯, ৫০, ৫১, ৫২, ৫৩, ৫৪, ৫৫, ৫৬, ৫৭, ৫৮, ৫৯, ৬০, ৬১, ৬২, ৬৩, ৬৪, ৬৫, ৬৬, ৬৭, ৬৮, ৬৯, ৭০, ৭১, ৭২, ৭৩, ৭৪, ৭৫, ৭৬, ৭৭, ৭৮, ৭৯, ৮০, ৮১, ৮২, ৮৩, ৮৪, ৮৫, ৮৬, ৮৭, ৮৮, ৮৯, ৯০, ৯১, ৯২, ৯৩, ৯৪, ৯৫, ৯৬, ৯৭, ৯৮, ৯৯, ১০০

(ক) ১ম সংখ্যাটিকে তিনটি সংখ্যার কর্ণের সমষ্টিরূপে এবং ২য় সংখ্যাটিকে দুইটি সংখ্যার কর্ণের সমষ্টিরূপে প্রকাশ কর। ২

(খ) ১ থেকে ১০ পর্যন্ত আনুগত্যিক সংখ্যাগুলোর সমষ্টি বের করে সূত্র প্রতিষ্ঠা কর। ৪

(গ) ৩ থেকে ১০ পর্যন্ত আনুগত্যিক সংখ্যাগুলোর সমষ্টি বের করে সূত্র প্রতিষ্ঠা কর। ৪

উত্তর : (ক) $1^2 + 2^2 + 3^2, 2^2 + 3^2 + 4^2$ (খ) ১২০

১১। নিচের চিত্রগুলো লক্ষ কর :



(ক) কাজির সংখ্যার তালিকা কর। ২

(খ) তালিকার পরবর্তী ৫টি সংখ্যা নির্ণয় কর। ৪

(গ) ৫ম চিত্রটি অঙ্কন কর এবং শততম চিত্রে কাজির সংখ্যা কত হবে? ৪

উত্তর : (ক) ৬, ১১, ১৬ (খ) ২৪, ৩০, ৩৬, ৪২, ৪৮ (গ) ৬০০টি

১২। ১২, ১৩, ১৪, ১৫, ১৬, ১৭, ১৮, ১৯, ২০, ২১, ২২, ২৩, ২৪, ২৫, ২৬, ২৭, ২৮, ২৯, ৩০, ৩১, ৩২, ৩৩, ৩৪, ৩৫, ৩৬, ৩৭, ৩৮, ৩৯, ৪০, ৪১, ৪২, ৪৩, ৪৪, ৪৫, ৪৬, ৪৭, ৪৮, ৪৯, ৫০, ৫১, ৫২, ৫৩, ৫৪, ৫৫, ৫৬, ৫৭, ৫৮, ৫৯, ৬০, ৬১, ৬২, ৬৩, ৬৪, ৬৫, ৬৬, ৬৭, ৬৮, ৬৯, ৭০, ৭১, ৭২, ৭৩, ৭৪, ৭৫, ৭৬, ৭৭, ৭৮, ৭৯, ৮০, ৮১, ৮২, ৮৩, ৮৪, ৮৫, ৮৬, ৮৭, ৮৮, ৮৯, ৯০, ৯১, ৯২, ৯৩, ৯৪, ৯৫, ৯৬, ৯৭, ৯৮, ৯৯, ১০০

(ক) ১০ অংকের যেটি মৌলিক সংখ্যাগুলোর কর্ণের সমষ্টি ও এদের সমষ্টির কর্ণের অংক নির্ণয় কর। ২

(খ) তালিকার পরের দুইটি সংখ্যা নির্ণয় কর। ৪

(গ) সংখ্যাগুলোর পর্যায় যে পাটিন তৈরি করে তার প্রথম দশটি সংখ্যার সমষ্টি নির্ণয় কর। ৪

উত্তর : (ক) ২০২ (খ) ৬২, ৭৭ (গ) ১৬০

১৩। নিচের জ্যামিতিক চিত্রগুলো কাজি নিয়ে তৈরি করা হয়েছে।



(ক) কাজির সংখ্যার তালিকা তৈরি কর। ২

(খ) তালিকার পরবর্তী সংখ্যাটি বীজগণিত বের করবে তা ব্যাখ্যা কর। ৪

(গ) কাজি নিয়ে পরবর্তী চিত্রটি তৈরি কর এবং তোমার উত্তর যাচাই কর। ৪

উত্তর : (ক) ৭, ১২, ১৭ (খ) ২২

(ক) কাজির সংখ্যার তালিকা তৈরি কর। ২

(খ) তালিকার পরবর্তী সংখ্যাটি বীজগণিত বের করবে তা ব্যাখ্যা কর। ৪

(গ) কাজি নিয়ে পরবর্তী চিত্রটি তৈরি কর এবং তোমার উত্তর যাচাই কর। ৪

উত্তর : (ক) ৭, ১২, ১৭ (খ) ২২

১৪। কোনো একটি কম্পিউটার প্রোগ্রাম থেকে নিচের সংখ্যাগুলো পাওয়া গেল :

১ ২ ৪ ৭ ১২ ১৬ ২২

(ক) তালিকার সংখ্যাগুলোর পর্যায় নির্ণয় কর। ২

(খ) তালিকার সংখ্যাগুলোর একটি সংখ্যা পরিবর্তন করা হলে সংখ্যাগুলো একটি পাটিন তৈরি করে : সংখ্যাটি চিহ্নিত কর এবং উপযুক্ত সংখ্যাটি নির্ণয় কর। ৪

(গ) এ তালিকার সংখ্যাগুলোর একটি সংখ্যা পরিবর্তন করা হলে সংখ্যাগুলোর যে পাটিন তৈরি হয় তা থেকে তালিকার পরবর্তী চারটি সংখ্যা নির্ণয় কর। ৪

উত্তর : (ক) ১, ২, ৩, ৪, ৫, ৬ (খ) ১২, ১১ (গ) ২৯, ৩৭, ৪৬, ৫৫

অধ্যায় ২

১৫। একজন ফল ব্যবসায়ী ঘণের থেকে ৩৬ টাকায় ১২টি করে কিছু সংখ্যক এবং সুঁটির ৩৬ টাকায় ১৮টি করে সমান সংখ্যক কলা খরিস করল। ব্যবসায়ীর নিজস্বক ৩৬ টাকায় ১৫টি করে তা বিক্রয় করলেন।

(ক) ব্যবসায়ী ঘণের থেকে প্রতিদল কলা কি করে ঠক করেছিল? ২

(খ) নিজস্বকী সবগুলো কলা বিক্রয় করলে শতকরা কত লাভ বা ক্ষতি হবে? ৪

(গ) ব্যবসায়ী ২৫% লাভ করতে চাইলে প্রতি দল কলা কি করে বিক্রয় করতে হবে? ৪

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SA Adler



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Table of Contents Jsc Math Suggetion Lesson Wise

1. Understanding the eBook Jsc Math Suggetion Lesson Wise
 - The Rise of Digital Reading Jsc Math Suggetion Lesson Wise
 - Advantages of eBooks Over Traditional Books
2. Identifying Jsc Math Suggetion Lesson Wise
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Jsc Math Suggetion Lesson Wise
 - User-Friendly Interface
4. Exploring eBook Recommendations from Jsc Math Suggetion Lesson Wise
 - Personalized Recommendations
 - Jsc Math Suggetion Lesson Wise User Reviews and Ratings
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