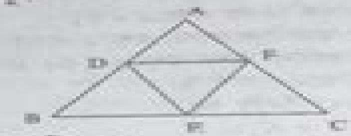
সৃজনশীল অংশ : জ্যামিতি

অধ্যায় ৮

১। চিত্রে, ABC একটি সমবাহু ত্রিভুজ। D, E ও F যথাক্রমে AB, BC ও AC এর মধ্যবিন্দু।



(ক) ΔDEF কী ধরনের ত্রিভুজ? ২
(খ) প্রমাণ কর যে, ∠BDF + ∠DFE + ∠FEB + ∠EBD = চার সমকোণ। ৪
(গ) প্রমাণ কর যে, DF ∥ BC এবং $DF = \frac{1}{2}BC$. ৪

২। চিত্রে, AB = CD এবং AB ∥ CD

(ক) AB ভূমিবিশিষ্ট দুইটি ত্রিভুজের নাম লেখ। ২
(খ) প্রমাণ কর যে, AD ও BC পরস্পর সমান ও সমান্তরাল। ৪
(গ) দেখাও যে, OA = OC এবং OB = OD. ৪

৩। ABCD একটি সামান্তরিক। AC ও BD কর্ণদ্বয় পরস্পরকে O বিন্দুতে ছেদ করে।
(ক) ∠BAD = 70° হলে ∠ABC এর মান নির্ণয় করো। ২
(খ) AC = BD হলে প্রমাণ কর যে, ABCD একটি আয়ত। ৪
(গ) AB = AD হলে প্রমাণ কর যে, AC ও BD পরস্পরকে O বিন্দুতে সমকোণে সমদ্বিখণ্ডিত করে। ৪

৪। ABCD সামান্তরিকের AC ও BD কর্ণদ্বয় পরস্পরকে O বিন্দুতে ছেদ করেছে। [যশোর বোর্ড-২০১৬; ঢাকা বোর্ড ২০১৫]
(ক) সংক্ষিপ্ত বিবরণসহ চিত্র আঁক। ২
(খ) প্রমাণ কর যে, AO = CO এবং BO = DO. ৪
(গ) কর্ণ AC = কর্ণ BD হলে, প্রমাণ কর যে, ABCD একটি আয়ত। ৪

৫। PQRS একটি সামান্তরিক এবং PR ও QS দুইটি কর্ণ। [চট্টগ্রাম বোর্ড-২০১৫]
(ক) উপরোক্ত তথ্যের আলোকে চিত্রটি অঙ্কন কর। ২
(খ) কর্ণদ্বয় O বিন্দুতে মিলিত হলে প্রমাণ কর যে, OP = OR, OQ = OS. ৪
(গ) প্রমাণ কর যে, ΔPQR ≅ ΔPSR. ৪

৬। PQRS একটি সামান্তরিক। ইহার PR ও QS কর্ণদ্বয় পরস্পর M বিন্দুতে ছেদ করেছে। [বরিশাল বোর্ড-২০১২]
(ক) উপরের তথ্যের আলোকে চিত্র আঁক। ২
(খ) প্রমাণ কর যে, PM = RM এবং QM = SM। ৪
(গ) প্রমাণ কর যে, ∠P ও ∠Q এর সমদ্বিখণ্ডকদ্বয় পরস্পর লম্ব। ৪

৭। কোনো চতুর্ভুজের তিনটি বাহুর দৈর্ঘ্য যথাক্রমে ৪ সে.মি., ৫ সে.মি. এবং ৬ সে.মি. এবং দুইটি অন্তর্ভুক্ত কোণ ৬০° এবং ৭৫°। [ঢাকা বোর্ড-২০১২]
(ক) প্রদত্ত তথ্যগুলি চিত্রের মাধ্যমে দেখাও। ২
(খ) উদ্দীপকের তথ্যানুসারে চতুর্ভুজটি আঁক। (অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক) ৪
(গ) উদ্দীপকের বৃহত্তম দুই বাহুকে রম্বসের কর্ণদ্বয় বিবেচনা করে রম্বসটি আঁক। (অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক) ৪

৮। কোনো চতুর্ভুজের দুইটি সন্নিহিত বাহুর দৈর্ঘ্য যথাক্রমে 4 সে.মি. ও 5 সে.মি. এবং তিনটি কোণ যথাক্রমে 60°, 70° ও 100° [যশোর বোর্ড-২০১৩]
(ক) প্রদত্ত তথ্যগুলোকে চিত্রের মাধ্যমে প্রকাশ কর। ২
(খ) চতুর্ভুজটি অঙ্কন কর। [অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক।] ৪
(গ) প্রদত্ত বাহুদ্বয়কে রম্বসের কর্ণ ধরে রম্বস অঙ্কন কর। [অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক।] ৪

৯। একটি সামান্তরিকের দুইটি সন্নিহিত বাহুর দৈর্ঘ্য যথাক্রমে 5 সে.মি. ও 7 সে.মি. এবং অন্তর্ভুক্ত কোণ 60°। [চট্টগ্রাম বোর্ড-২০১৩]
(ক) প্রদত্ত তথ্যগুলো চিত্রের মাধ্যমে প্রকাশ কর। ২
(খ) অঙ্কনের চিহ্ন ও বিবরণসহ সামান্তরিকটি অঙ্কন কর। ৪
(গ) সামান্তরিকটির বৃহত্তম বাহুর সমান কর্ণবিশিষ্ট একটি বর্গ অঙ্কন কর। [অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক] ৪

১০। চতুর্ভুজের চারটি বাহুর দৈর্ঘ্য a = 2.5 সে.মি., b = 3 সে.মি., c = 3.5 সে.মি., d = 4 সে.মি. এবং a ও b বাহুদ্বয়ের অন্তর্ভুক্ত কোণ ∠x = 45°। [রাজশাহী বোর্ড-২০১৬]
(ক) পেন্সিল কম্পাসের সাহায্যে 45° কোণ অঙ্কন কর। ২
(খ) অঙ্কনের চিহ্ন ও বিবরণসহ চতুর্ভুজটি আঁক। ৪
(গ) b ও d কে রম্বসের কর্ণ ধরে রম্বসটি আঁক। [অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক] ৪

১১। একটি চতুর্ভুজের তিনটি বাহুর দৈর্ঘ্য 3.2 সে.মি., 4 সে.মি., 4.6 সে.মি. এবং দুইটি কর্ণ 5.4 সে.মি. ও 6 সে.মি.। [কুমিল্লা বোর্ড-২০১৬]
(ক) প্রদত্ত তথ্যগুলো চিত্রের মাধ্যমে প্রকাশ কর। ২
(খ) অঙ্কনের বিবরণসহ চতুর্ভুজটি আঁক। ৪
(গ) প্রদত্ত কর্ণদ্বয়কে রম্বসের কর্ণ ধরে অঙ্কনের বিবরণসহ রম্বসটি আঁক। ৪

১২। একটি চতুর্ভুজের দুইটি সন্নিহিত বাহুর দৈর্ঘ্য 5 সে.মি. এবং 6 সে.মি. তিনটি কোণ যথাক্রমে 75°, 85° এবং 100°। [দিনাজপুর বোর্ড-২০১৬]
(ক) প্রদত্ত তথ্যগুলো চিত্রের মাধ্যমে প্রকাশ কর। ২
(খ) অঙ্কনের বিবরণসহ চতুর্ভুজটি আঁক। ৪
(গ) উল্লেখিত বাহুদ্বয়কে কর্ণের দৈর্ঘ্য ধরে একটি রম্বস আঁক। (অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক) ৪

১৩। দুইটি নির্দিষ্ট রেখাংশ a = 5 সে.মি., b = 3.5 সে.মি. এবং দুইটি কোণ ∠x = 75° ও ∠y = 80°।
(ক) পেন্সিল কম্পাসে ∠x আঁক। ২
(খ) রেখাংশ দু'টিকে সন্নিহিত বাহু বিবেচনা করে একটি আয়ত আঁক। (অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক) ৪
(গ) a ও b কে সমান্তরাল বাহু এবং প্রদত্ত কোণ দু'টিকে a বাহু সংলগ্ন কোণ বিবেচনা করে একটি ট্রাপিজিয়াম আঁক। (অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক) ৪

১৪। সামান্তরিকের দুইটি সন্নিহিত বাহু 4 সে.মি. ও 5 সে.মি. এবং এদের অন্তর্ভুক্ত কোণ 60°। [বরিশাল বোর্ড-২০১৬]
(ক) প্রদত্ত তথ্যগুলো চিত্রের মাধ্যমে প্রকাশ কর। ২
(খ) সামান্তরিকটি আঁক। (অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক) ৪
(গ) সামান্তরিকের উক্ত সন্নিহিত দুই বাহুকে কোনো রম্বসের দুইটি কর্ণের দৈর্ঘ্য ধরে রম্বসটি আঁক। (অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক) ৪

১৫। PQRS রম্বসের PR ও QS কর্ণদ্বয়ের দৈর্ঘ্য যথাক্রমে 6 সে.মি. ও 4 সে.মি. এবং উহারা পরস্পরকে O বিন্দুতে ছেদ করে। [সিলেট বোর্ড-২০১৬]
(ক) রম্বসটির ক্ষেত্রফল নির্ণয় কর। ২
(খ) রম্বসটি অঙ্কন কর। [অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক] ৪
(গ) প্রমাণ কর যে, রম্বসটির কর্ণদ্বয় O বিন্দুতে পরস্পরকে সমকোণে সমদ্বিখণ্ডিত করে। ৪

১৬। BD, ABCD সামান্তরিকের একটি কর্ণ। AE ⊥ BD এবং CF ⊥ BD অঙ্কিত হয়েছে। [যশোর বোর্ড-২০১৪]
(ক) তথ্যের আলোকে চিত্রটি আঁক। ২
(খ) দেখাও যে, AE = CF এবং BF = DE. ৪
(গ) প্রদত্ত সামান্তরিকের ∠A ও ∠C এর সমদ্বিখণ্ডকদ্বয় যথাক্রমে AM ও CN হলে প্রমাণ কর যে, তারা পরস্পর সমান্তরাল। ৪

১৭। PQRS একটি রম্বস যার ∠P = 60°, পরিসীমা 16 সে.মি. উহার PR ও QS কর্ণদ্বয় পরস্পরকে O বিন্দুতে ছেদ করে। [কুমিল্লা বোর্ড-২০১৫]
(ক) রম্বসের PQ বাহুর দৈর্ঘ্য নির্ণয় কর। ২
(খ) প্রমাণ কর যে, PO = RO, QO = SO এবং ∠POQ = ১ সমকোণ। ৪
(গ) PQRS রম্বসটি আঁক। (অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক) ৪

১৮। একটি চতুর্ভুজের দুইটি সন্নিহিত বাহু 5 সে.মি., 6 সে.মি. এবং তিনটি কোণ যথাক্রমে 60°, 80° ও 90°। [যশোর বোর্ড-২০১৫]
(ক) কম্পাসের সাহায্যে 60° ও 90° কোণ আঁক। ২
(খ) অঙ্কনের বিবরণসহ চতুর্ভুজটি আঁক। ৪
(গ) উল্লিখিত বাহুদ্বয়কে কর্ণের দৈর্ঘ্য ধরে একটি রম্বস আঁক। (অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক) ৪

১৯। একটি সামান্তরিকের সন্নিহিত দুইটি বাহু 6 সে.মি. ও 4 সে.মি. এবং তাদের অন্তর্ভুক্ত কোণ 60°। [রাজশাহী বোর্ড-২০১৪]
(ক) উপরোক্ত তথ্যগুলো চিত্রের মাধ্যমে প্রকাশ কর। ২
(খ) অঙ্কনের বিবরণসহ সামান্তরিকটি আঁক। ৪
(গ) সামান্তরিকের বৃহত্তর বাহু ও বৃহত্তর কর্ণ যথাক্রমে একটি আয়তক্ষেত্রের বাহু ও কর্ণ হলে, আয়তক্ষেত্রটি আঁক (অঙ্কনের চিহ্ন ও বিবরণ আবশ্যক)। ৪

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Table of Contents Jsc Math Suggestion 2014 Dhaka Board

1. Understanding the eBook Jsc Math Suggestion 2014 Dhaka Board
    - The Rise of Digital Reading Jsc Math Suggestion 2014 Dhaka Board
    - Advantages of eBooks Over Traditional Books
2. Identifying Jsc Math Suggestion 2014 Dhaka Board
    - 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 Suggestion 2014 Dhaka Board
    - User-Friendly Interface
4. Exploring eBook Recommendations from Jsc Math Suggestion 2014 Dhaka Board
    - Personalized Recommendations
    - Jsc Math Suggestion 2014 Dhaka Board User Reviews and Ratings
    - Jsc Math Suggestion 2014 Dhaka Board and Bestseller Lists

5. Accessing Jsc Math Suggestion 2014 Dhaka Board Free and Paid eBooks
    - Jsc Math Suggestion 2014 Dhaka Board Public Domain eBooks
    - Jsc Math Suggestion 2014 Dhaka Board eBook Subscription Services
    - Jsc Math Suggestion 2014 Dhaka Board Budget-Friendly Options
6. Navigating Jsc Math Suggestion 2014 Dhaka Board eBook Formats
    - ePub, PDF, MOBI, and More
    - Jsc Math Suggestion 2014 Dhaka Board Compatibility with Devices
    - Jsc Math Suggestion 2014 Dhaka Board Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Jsc Math Suggestion 2014 Dhaka Board
    - Highlighting and Note-Taking Jsc Math Suggestion 2014 Dhaka Board
    - Interactive Elements Jsc Math Suggestion 2014 Dhaka Board
8. Staying Engaged with Jsc Math Suggestion 2014 Dhaka Board
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Jsc Math Suggestion 2014 Dhaka Board
9. Balancing eBooks and Physical Books Jsc Math Suggestion 2014 Dhaka Board
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Jsc Math Suggestion 2014 Dhaka Board
10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
11. Cultivating a Reading Routine Jsc Math Suggestion 2014 Dhaka Board
    - Setting Reading Goals Jsc Math Suggestion 2014 Dhaka Board
    - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Jsc Math Suggestion 2014 Dhaka Board
    - Fact-Checking eBook Content of Jsc Math Suggestion 2014 Dhaka Board
    - Distinguishing Credible Sources
13. Promoting Lifelong Learning

  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
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