

৩৪৪। AB ও CD কূরের দুটি জ্যা।

[অনু. ১০.২]



OM  $\perp$  AB এবং ON  $\perp$  CD

ক. OA = 5.5 সে.মি. হলে ABCD কূরের পরিধি নির্ণয় কর।

২

খ. AB = CD হলে প্রমাণ কর যে, OM = ON.

৪

গ. AB > CD হলে প্রমাণ কর যে, ON > OM.

৪

উত্তরসূত্র : পৃষ্ঠা ৩৯১-এর ২২নং সূজনমূলক প্রশ্নের সমাধান প্রদেয়।

[রাণুর জিলা স্কুল, রাণুর]

৩৪৫।

[অনু. ১০.৩]



চিত্রে LM = LN এবং OE = 2.3 cm

ক. কূরের সৈখ্য ও ক্ষেত্রফল নির্ণয় কর।

২

খ. প্রমাণ কর যে, LM এবং LN কেন্দ্র হতে সমদূরবর্তী।

৪

গ. প্রমাণ কর যে,  $\angle OLM = \angle OLN$ .

৪

[স্বাধীনতা সড়কটির বালিকা উচ্চ বিদ্যালয়, গোপালগঞ্জ]

উত্তরসূত্র : পৃষ্ঠা ৩৯৬-এর ৫নং সূজনমূলক প্রশ্নের সমাধান প্রদেয়।

Step ২ তেএসনি পটীকার প্রয়গর বিরোধের মাধ্যমে সাজেশন 5২

৩৪৬।

[অনু. ১০.১]



জ্যা MN = জ্যা PL হলে,

ক. কূরের পরিধি 54 সে.মি. হলে ব্যাসার্ধ কত?

২

খ. প্রমাণ কর যে, MN ও PL জ্যাটির কেন্দ্র থেকে সমদূরবর্তী।

৪

গ. OE রেখা MN জ্যা এর উপর লম্ব হলে,

প্রমাণ কর যে, ME = NE।

৪

[মিলেট বোর্ড ২০১৫]

উত্তরসূত্র : পৃষ্ঠা ৩৭৫-এর ২নং সূজনমূলক প্রশ্নের সমাধান প্রদেয়।

৩৪৭। O কেন্দ্রবিন্দুটি কূরের AB ও CD ব্যাস নয় এমন দুইটি জ্যা। [n = 3.1416]

[অনু. ১০.১]

ক. 11 মিটার ব্যাসের কূরকার একটি বাগানের ক্ষেত্রফল নির্ণয় কর।

২

খ. AB এর মধ্যবিন্দু M হলে, দেখাও যে, OM  $\perp$  AB.

৪

গ. AB ও CD দুইটি সমান জ্যা হলে, দেখাও যে, এদের

মধ্যবিন্দুগুলো সমবৃত্ত।

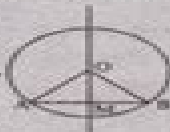
৪

[বাগের বোর্ড ২০১৪]

উত্তরসূত্র : পৃষ্ঠা ৩৭৬-এর ৪নং সূজনমূলক প্রশ্নের সমাধান প্রদেয়।

৩৪৮।

[অনু. ১০.১]



ক. O কেন্দ্রবিন্দুটি উপরের কূরের ব্যাসার্ধ ও জ্যা চিহ্নিত করে দেখাও।

২

খ. উল্লীপত্রের আলোকে প্রমাণ কর যে, OM  $\perp$  AB.

৪

গ. AB এর মধ্যবিন্দু M হলে, প্রমাণ কর যে,  $\angle AMB = 2$  সমকোণ।

৪

[উজ্জয় বোর্ড ২০১৪]

উত্তরসূত্র : পৃষ্ঠা ৩৭৭-এর ৬নং সূজনমূলক প্রশ্নের সমাধান প্রদেয়।

৩৪৯। O কেন্দ্রবিন্দুটি ABCD কূরে AB এবং CD দুইটি ব্যাস ছিল জ্যা। O থেকে AB এবং CD জ্যাটির উপর OF এবং OQ লম্ব।

[অনু. ১০.২]

ক. সঠিকের বিবরণসহ চিত্রটি আঁক।

২

খ. যদি AB = CD হয়, তবে প্রমাণ কর যে, OF = OQ.

৪

গ. AB এবং CD সমান জ্যা কূরের অভ্যন্তরে E বিন্দুতে ছেঁদে করলে

৪

প্রমাণ কর যে, AE = CE এবং BE = DE.

৪

[জালা বোর্ড ২০১৫]

উত্তরসূত্র : পৃষ্ঠা ৩৮৫-এর ৭নং সূজনমূলক প্রশ্নের সমাধান প্রদেয়।

৩৫০। O কেন্দ্রবিন্দুটি কূরে AB ও CD দুইটি জ্যা। O বিন্দু হতে AB ও CD জ্যা এর উপর যথাক্রমে OE ও OF লম্ব।

[অনু. ১০.২]

ক. তথ্যানুযায়ী সঠিকের বর্ণনাসহ চিত্র আঁক।

২

খ. OE = OF হলে প্রমাণ কর যে, AB = CD.

৪

গ. AB > CD হলে প্রমাণ কর যে, OE < OF.

৪

[বাগের বোর্ড ২০১৫]

উত্তরসূত্র : পৃষ্ঠা ৩৮৬-এর ৯নং সূজনমূলক প্রশ্নের সমাধান প্রদেয়।

৩৫১। O কেন্দ্রবিন্দুটি একটি কূরে জ্যা PQ = জ্যা RS.

[অনু. ১০.২]

ক. OP = 3 সে. মি. হলে কূরের ক্ষেত্রফল নির্ণয় কর।

২

খ. প্রমাণ কর যে, PQ ও RS জ্যাটির কেন্দ্র O থেকে সমদূরবর্তী।

৪

গ. PQ > RS হলে, প্রমাণ কর যে, PQ জ্যাটি RS জ্যা অপেক্ষা

৪

কেন্দ্রের নিকটতর।

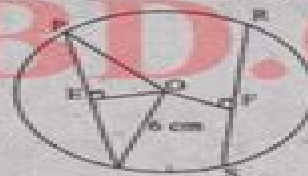
৪

[রাজশাহী বোর্ড ২০১৫]

উত্তরসূত্র : পৃষ্ঠা ৩৮৭-এর ১০নং সূজনমূলক প্রশ্নের সমাধান প্রদেয়।

৩৫২।

[অনু. ১০.৩]



চিত্রে O কূরের কেন্দ্র এবং জ্যা PQ = জ্যা RS.

ক. কূরের ক্ষেত্রফল নির্ণয় কর।

২

খ. প্রমাণ কর যে, E, OQ এর মধ্যবিন্দু।

৪

গ. দেখাও যে, OE = OF.

৪

[কুমিল্লা বোর্ড ২০১৫]

উত্তরসূত্র : পৃষ্ঠা ৩৯৪-এর ১নং সূজনমূলক প্রশ্নের সমাধান প্রদেয়।

৩৫৩।

[অনু. ১০.৩]



চিত্রে সমকেন্দ্রিক ABC ও DEF কূরযুগ্মের AB ও DE দুইটি ব্যাস যাদের সৈখ্য যথাক্রমে 14 সে. মি. ও 8 সে. মি.

ক. 4 সে. মি. ব্যাসার্ধবিন্দুটি কূরের পরিধি নির্ণয় কর।

২

খ. প্রমাণ কর যে, ABC কূরের AB-ই বৃহত্তম জ্যা।

৪

গ. উল্লীপত্রের কূরযুগ্মের পরিধির মধ্যবর্তী এলাকার ক্ষেত্রফল নির্ণয়

৪

কর।

৪

[জালা বোর্ড ২০১৫]

উত্তরসূত্র : পৃষ্ঠা ৩৯৫-এর ৪নং সূজনমূলক প্রশ্নের সমাধান প্রদেয়।

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## **Table of Contents Jsc Final Math Sussetion 2014**

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

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

- 
13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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