

৩৫৪। AB ও CD বৃত্তের দুটি জ্যা।

[অনু. ১০.৫]



OM  $\perp$  AB এবং ON  $\perp$  CD

ক. OA = 5.5 সে.মি. হলে ABCD বৃত্তের 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]

৩৫৫।



[অনু. ১০.৩]

চিত্রে LM = LN এবং OE = 2.3 cm

ক. বৃত্তটির সৈধ্য ও কেন্দ্রফল 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 প্রয়োগ বিশ্লেষণের মাধ্যমে সাজেশন 5২

৩৫৬।



[অনু. ১০.১]

জ্যা MN = জ্যা PL হলে,

ক. বৃত্তটির 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।

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

[অনু. ১০.১]

ক. 11 মিটার ব্যাসের বৃত্তাকার 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।

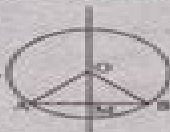
৪

[বাগের বোর্ড ২০১৪]

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

৩৫৮।

[অনু. ১০.১]



ক. O কেন্দ্রবিন্দুটি উপরের বৃত্তের 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।

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

[অনু. ১০.৫]

ক. সঠিক বিবরণসহ চিত্রটি আঁক।

২

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

৪

গ. AB এবং CD সমান জ্যা বৃত্তের অভ্যন্তরে E বিন্দুতে ছেঁদ করলে প্রমাণ কর যে, AE = CE এবং BE = DE.

৪

[ঢাকা বোর্ড ২০১৫]

উত্তরসূত্র : পৃষ্ঠা ৩৬৫-এর ৭নং সূজনমূলক প্রশ্নের সমাধান প্রদেয়।

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

[অনু. ১০.৫]

ক. তথ্যানুযায়ী সঠিক বিবরণসহ 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 ৩৬৬-এর ৯নং সূজনমূলক প্রশ্নের সমাধান প্রদেয়।

৩৬১। O কেন্দ্রবিন্দুটি একটি বৃত্তে জ্যা PQ = জ্যা RS. [অনু. ১০.২]

[অনু. ১০.২]

ক. OP = 3 সে. মি. হলে বৃত্তটির 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 কেন্দ্রের নিকটতর।

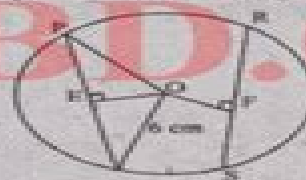
৪

[রাজশাহী বোর্ড ২০১৫]

উত্তরসূত্র : পৃষ্ঠা ৩৬৭-এর ১০নং সূজনমূলক প্রশ্নের সমাধান প্রদেয়।

৩৬২।

[অনু. ১০.৩]



চিত্রে O বৃত্তের কেন্দ্র এবং জ্যা PQ = জ্যা RS.

ক. বৃত্তটির ক্ষেত্রফল নির্ণয় কর।

২

খ. প্রমাণ কর যে, E, OQ এর মধ্যবিন্দু।

৪

গ. দেখাও যে, OE = OF.

৪

[কুমিল্লা বোর্ড ২০১৫]

উত্তরসূত্র : পৃষ্ঠা ৩৬৮-এর ১নং সূজনমূলক প্রশ্নের সমাধান প্রদেয়।

৩৬৩।

[অনু. ১০.৩]



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

ক. 4 সে. মি. ব্যাসার্ধবিন্দু বৃত্তের পরিধি নির্ণয় কর।

২

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

৪

গ. উল্লীপত্রের বৃত্তদ্বয়ের পরিধির মধ্যবর্তী এলাকার ক্ষেত্রফল নির্ণয় কর।

৪

[ঢাকা বোর্ড ২০১৫]

উত্তরসূত্র : পৃষ্ঠা ৩৬৫-এর ৪নং সূজনমূলক প্রশ্নের সমাধান প্রদেয়।

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$$\begin{bmatrix} 2 & 0 & 1 & 1 & 0 & 1 & 1 & 0 & 3 \\ 1 & 1 & 3 & 0 & 1 & 1 & 1 & 1 & 1 \end{bmatrix}$$
 right a  $2 \times 9$  matrix 
$$\begin{bmatrix} 2 & 0 & 1 & 1 & 2 & 1 & 1 & 1 & 0 & 1 & 3 & 1 & 1 & 0 & 0 & 1 & 1 & 3 & 1 & 1 & 5 \end{bmatrix}$$
  $5 \times 20$  problem 2

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