

১৫।  $x^2 - \sqrt{5}x + 1 = 0$  হলে  $x + \frac{1}{x} =$  কত?

- (ক)  $-2\sqrt{5}$  (খ)  $-\sqrt{5}$   
(গ)  $\sqrt{5}$  (ঘ)  $5\sqrt{5}$

১৬।  $x + y = 6$  এবং  $x - y = 4$  হলে  $5xy$  এর মান কত?

- (ক) 16 (খ) 24  
(গ) 25 (ঘ) 36

১৭।  $U = \{1, 2, 3, 4, 5, 6, 7\}$ ,  $A = \{3, 5, 6, 7\}$  হলে  $A$  সমান কত হবে?

- (ক)  $\{1, 2, 4\}$  (খ)  $\{2, 4, 5\}$   
(গ)  $\{2, 4, 6\}$  (ঘ)  $\{3, 5, 6, 7\}$

১৮।  $A = \{3, 4, 5\}$  এবং  $B = \{4, 5, 7\}$  হলে—

- i.  $A \cup B = \{3, 4, 5, 7\}$   
ii.  $A \cap B = \{4, 5\}$   
iii.  $A \subset B$

নিচের কোনটি সঠিক?

- (ক) i ও ii (খ) i ও iii  
(গ) ii ও iii (ঘ) i, ii ও iii

১৯।  $x^2 - x - 42$  এর উৎপাদকে বিশ্লেষিত রূপ নিচের কোনটি?

- (ক)  $(x-6)(x-7)$   
(খ)  $(x-6)(x+7)$   
(গ)  $(x+6)(x+7)$   
(ঘ)  $(x-7)(x+6)$

২০। কোনো বিন্দুটি  $x$ -অক্ষের উপর অবস্থিত?

- (ক)  $(0, -4)$  (খ)  $(-4, 0)$   
(গ)  $(0, 3)$  (ঘ)  $(3, -1)$

২১। কোন প্রকৃত ভগ্নাংশের লব ও হরের যোগফল 14 এবং বিয়োফল 8 হলে, ভগ্নাংশটি নিচের কোনটি?

- (ক)  $\frac{5}{9}$  (খ)  $\frac{9}{5}$   
(গ)  $\frac{3}{11}$  (ঘ)  $\frac{11}{3}$

২২।  $m^2 - 6m - 1 = 0$  হলে  $m^2 + \frac{1}{m^2} =$  কত?

- (ক) 32  
(খ) 34  
(গ) 36  
(ঘ) 38

২৩। একটি সমকোণী ত্রিভুজের বাহুর ব্যাসার্ধ 4 সে.মি. এবং উচ্চতা 6 সে.মি.। ত্রিভুজটির বক্র পৃষ্ঠের ক্ষেত্রফল কত?

- (ক) 75-36 বর্গ সে.মি.  
(খ) 150-72 বর্গ সে.মি.  
(গ) 226-08 বর্গ সে.মি.  
(ঘ) 301-44 বর্গ সে.মি.

নিচের চিত্র অনুসারে ২৪ ও ২৫নং প্রশ্নের উত্তর দাও।



ABCD বর্জকের কর্ণের 'O' বিন্দুতে মিলিত হয়েছে এবং  $BC = 6$  cm.

২৪।  $\angle AOB =$  কত?

- (ক)  $30^\circ$  (খ)  $45^\circ$   
(গ)  $60^\circ$  (ঘ)  $90^\circ$

২৫। AC এর ঠিকানা কত?

- (ক) 6 সে.মি. (খ)  $6\sqrt{2}$  সে.মি.  
(গ)  $9\sqrt{2}$  সে.মি. (ঘ) 12 সে.মি.

২৬। যে চতুর্ভুজের দুই জোড়া সম্মিলিত বাহু সমান তাকে কী বলে?

- (ক) অয়ত (খ) বর্গ  
(গ) ঘূর্ণি (ঘ) সামান্তরিক

২৭।



ABC ত্রিভুজের ক্ষেত্রফল কত?

- (ক) 24 বর্গ সে.মি. (খ) 36 বর্গ সে.মি.  
(গ) 48 বর্গ সে.মি. (ঘ) 60 বর্গ সে.মি.

২৮। একটি ত্রিভুজের বাহুত্রয়ের অনুপাত  $x : x : x\sqrt{2}$  হলে, এর বৃহত্তম কোণটির মান কত?

- (ক)  $80^\circ$  (খ)  $85^\circ$   
(গ)  $90^\circ$  (ঘ)  $120^\circ$

২৯। চতুর্ভুজের চারটি কোণের সমষ্টি কত?

- (ক)  $360^\circ$  (খ)  $300^\circ$   
(গ)  $270^\circ$  (ঘ)  $180^\circ$

৩০। একটি ট্র্যাপিজিয়ামের সমান্তরাল বাহু দুটির ঠিকানা যথাক্রমে 13 সে.মি. এবং 8 সে.মি.। সমান্তরাল বাহুদ্বয়ের লম্ব দূরত্ব 4 সে.মি. হলে ট্র্যাপিজিয়ামটির ক্ষেত্রফল কত বর্গ?

- (ক) 42 বর্গ সে.মি. (খ) 52 বর্গ সে.মি.  
(গ) 84 বর্গ সে.মি. (ঘ) 104 বর্গ সে.মি.

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**Lingsheng Yao**



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web hydrogen demand reached 94 million tonnes mt in 2021 recovering to above pre pandemic levels 91 mt in 2019 and containing energy equal to about 2.5% of global final energy consumption most of the increase came from traditional uses in refining and industry though demand for new applications grew to about 40 thousand tonnes up

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web hydrogen production is the family of industrial methods for generating hydrogen gas there are four main sources for the commercial production of hydrogen natural gas oil coal and electrolysis of water which account for 48 30 18 and 4% of the world's hydrogen production respectively 1

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web a key barrier for low carbon hydrogen is the cost gap with hydrogen from unabated fossil fuels at present producing hydrogen from fossil fuels is the cheapest option in most parts of the world depending on regional gas prices the levelised cost of hydrogen production from natural gas ranges from usd 0.5 to usd 1.7 per kilogramme kg

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web oct 6 2021 the former is the more mature and most common used industrially as it is a cost effective method that deploys cracking or reforming fossil based fuels in 2016 hydrogen production globally was about 85 million tonnes used in petroleum metal industry fertiliser food processing semiconductor production power plants and

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web jul 22 2022 the fossil fuels based hydrogen production plants can also be modified or expanded to integrate ccs ccus systems to capture the emitted emissions and produce green hydrogen furthermore the key benefits and critical challenges associated with hydrogen production storage transportation and distribution and commercial

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web hydrogen production processes thermochemical processes some thermal processes use the energy in various resources such as natural gas coal or electrolytic processes electrolyzers use electricity to split water into hydrogen and oxygen this technology is well direct solar water splitting

*hydrogen fuel basics department of energy* - Sep 06 2023

web hydrogen fuel basics thermal processes thermal processes for hydrogen production typically involve steam reforming a high temperature electrolytic processes water can be separated into oxygen and hydrogen through a process called electrolysis solar driven processes solar driven processes use