

৩। টাকায় ৩টি মরে কলা কিনে টাকায় ২টি মরে বিক্রয় করলে শতকরা কত লাভ বা ক্ষতি হবে?

- (ক) লাভ $33\frac{1}{3}\%$
(খ) ক্ষতি $33\frac{1}{3}\%$
(গ) লাভ ৫০%
(ঘ) ক্ষতি ৫০%

৪। ১ কাঠা সমান—

- i. ৭২০ বর্গফুট
ii. ৮০ বর্গগজ
iii. ৬৭-৮৯ বর্গমিটার (প্রায়)

নিচের কোনটি সঠিক?

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

নিচের তথ্যের আলোকে ৫ ও ৬ নং প্রশ্নের উত্তর দাও :—
একটি আয়তাকার বাগানের ক্ষেত্রফল ৫৭৬ বর্গমিটার এবং দৈর্ঘ্য ৩৬ মিটার।

৫। বাগানের পরিসীমা কত মিটার?

- (ক) ৬৪
(খ) ১০৪
(গ) ১৪৪
(ঘ) ২৮৮

৬। বাগানের কর্ণ কত মিটার?

- (ক) ৭-২১ (প্রায়)
(খ) ১০-২ (প্রায়)
(গ) ২৪-৩ (প্রায়)
(ঘ) ৩৯-৪ (প্রায়)

৭। বার্ষিক ৭% সরল মুনাফায় ১৪০০ টাকার ও বছরের সরল মুনাফা কত?

- (ক) ২৯৪ টাকা
(খ) ৪২০ টাকা
(গ) ২১০০ টাকা
(ঘ) ৪২০০ টাকা

৮। বার্ষিক ১০% সরল মুনাফায় ১২০০ টাকার কত বছরের মুনাফা ৪৮০ টাকা হবে?

- (ক) ২ বছর
(খ) ৪ বছর
(গ) ৬ বছর
(ঘ) ৮ বছর

৯। সরল মুনাফার ক্ষেত্রে—

- i. $A = P + I$
ii. $P = \frac{Inr}{100}$
iii. $A = P(1 + nr)$

নিচের কোনটি সঠিক?

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

১০। একটি চৌবাচ্চার দৈর্ঘ্য ৩ মিটার, প্রস্থ ২ মিটার এবং উচ্চতা ১ মিটার। চৌবাচ্চাটিতে কত লিটার পানি থাকবে?

- (ক) ৬০
(খ) ৬০০
(গ) ৬০০০
(ঘ) ৬০০০

১১। $x + \frac{1}{x} = 2$ হলে—

i. $x^2 + \frac{1}{x^2} = 2$

ii. $x^3 + \frac{1}{x^3} = 0$

iii. $x^4 + \frac{1}{x^4} = 4$

নিচের কোনটি সঠিক?

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

নিচের তথ্যের আলোকে ১২ ও ১৩ নং প্রশ্নের উত্তর দাও :—
 $a + b = 12$, $a - b = 2$

১২। $a^2 + b^2$ এর মান নিচের কোনটি?

- (ক) ৭৪
(খ) ১০০
(গ) ১৪৬
(ঘ) ১৯৬

১৩। $a^3 + b^3$ এর মান নিচের কোনটি?

- (ক) ৪
(খ) ৪৬৪
(গ) ১০০০
(ঘ) ১৭২৮

১৪। নিচের কোনটি $3x^2 + 11x - 4$ এর একটি উৎপাদক?

- (ক) $x - 4$
(খ) $3x + 1$
(গ) $3x - 1$
(ঘ) $x - 1$

১৫। $9a^3b^2c^2$, $12a^2bc$, $15ab^3c^3$ এর গ.সা.ও কত?

- (ক) abc
(খ) $3abc$
(গ) $135a^2b^2c^2$
(ঘ) $180a^3b^3c^3$

১৬। $\frac{m^2 - n^2}{m^2 + n^2 - 2mn} + \frac{(m - n)^2}{(m + n)^2 - 4mn}$ এর সরলকৃত মান নিচের কোনটি?

- (ক) $m - n$
(খ) $m + n$
(গ) $\frac{m - n}{m + n}$
(ঘ) $\frac{m + n}{m - n}$

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JS Bruner



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