बालिका कियापीड

1. Multipe choice question:

J. $(a - b)^3 + (b - c)^3 + (c - a)^3 =$

a. 32

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c. 20

Class: VIII Subject: Mathematics

A. What least number must be subtracted from 176 to make it a p	erfect sq	uare?

b. 16

B. The area of square field is $38 \frac{11}{25}$ m ² The lengh of one side is :				
a. $\frac{38}{4}$ m	$b.\frac{35}{5}$ m	c. $\frac{31}{5}$ m	d. $\frac{39}{5}$ m	
C. A regular hexagon is inscribed in a circle of radius 10 cm. Its area in sq. cm is				
a. $300\sqrt{3}$	b. 150	c. $150\sqrt{3}$	d. 600	
D. The measure of the angle which is equal to its complement is				
a. 30 ^o	b. 60°	$c.45^{0}$	d. 90 ^o	
E. How many elements are there in a triangle?				
a. 4	b. 6	c. 3	d. 9	
F. $(256)^{0.16}$ x $(256)^{0.09}$ is				
a. 4	b. 16	c. 4	d. 256.25	
G The ages of father and son are 35 years and 10 years, the ratio of their ages after 10				
years is				
a. 3 : 2	b. 5 : 2	c. 9 : 4	d. 15 : 2	
H. The intrest on a sum of Rs. 2500 for 4 years at the interest ratr 4% is				
a. Rs. 100	b. Rs. 200	c. Rs.300	d. Rs. 400	
I. The perimeter of semi-circle of radius r is				
a. πr	b. $2\pi r$	c. π r + r	d. π r + 2r	

a. 3*abc*

b. $3(ab + bc + ca) c. a^3 + b^3 + c^3$

d. none of these

2. Fill in the blanks: -

a) If a number is less than 1, its square roots is always ____ than the number.

b) The diagonal of a square = _____ x side.

c) If $x^2(x^3-5) = 0$ then degree of x is _____.

d) The daigonals of rhombus intersect each other at_____.

e) If a + b + c = 0, then $a^3 + b^3 + c^3 =$ _____.

3. Very short answer type question: -

a) Find the smallest four digits number which is perfect square.

b) Find five rational numbers between $\frac{3}{7}$ and $\frac{5}{9}$.

c) If x + y = 5 and xy = 4 then find the value $x^3 + y^3$.

d) If $9^{x+2} = 240 + 9^{x}$, then find the value of x.