

BHARTIYAM CLASSES

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CLASS-VIII

MATHEMATICS**(SQUARE & SQUARE ROOTS,CUBE & CUBE ROOTSALGEBRIC EXPRESSIONS)**

NAME: _____ CLASS _____ SCH _____

TIME-1hr.**MM-40**

Q1. A square never ends in _____

1

(A) 5

(B) 7

(C) 9

(D) 6

Q.2 Square of even numbers are _____

1

(A) Odd

(B) even

(C) both

(D) can't say

Q3. $1+3+5+7+9+11+13 = (\quad)^2$

1

(A) 5

(B) 9

(C) 7

(D) 3

Q4.The digit in the unit place in the square of 15876 is _____

1

(A) 4

(B) 9

(C) 5

(D) 6

Q5.The number of zeros at the end of a perfect square is always _____

1

(A) Odd

(B) even

(C) both

(D) can't say

Q6.which among the followings is a trinomial?

1

(A) $5x+2$ (B) $9x$ (C) $3x^2+5x$ (D) $2x^2+3x+8$ Q23.which of the following is not equal to $-6t^2-t$? 2(A) $-(6t^2+t)$ (B) $(t^2+8t)-(7t^2+9t)$ (C) $(3t^2-5t)-(-5t^2-4t)$ (D) $(2t^2-3t+1)-(-8t^2-2t+1)$

Q24.The largest four digit number which is a perfect cube is: 2

(A) 9999

(B) 9261

(C) 8000

(D) 9899

Q25. If $\sqrt{15625} = 125$ then $\sqrt{15625} + \sqrt{156.25} + \sqrt{1.5625} = ?$ 2

(A) 1.3875

(B) 13.875

(C) 138.75

(D) 156.25

Q26.least no. which must be subtracted from 4494 to make a perfect square is- 2

(A) 4

(B) 10

(C) 5 (D) 7

Q27.The value of $\frac{1}{\sqrt{0.09}}$ is 2(A) $\frac{1}{10}$ (B) $\frac{3}{10}$

(C) 1

(D) 10

Q28.the Pythagorean Triplets are ... 2

(A) $2m, m^2+1, m^2-1$ (B) m, m^2+1, m^2-1 (C) $2m, m+1, m-1$ (D) $m, m+1, m-1$

Q29. Smallest number by which 980 must be multiplied so that the product is a perfect square is 2

(A) 7

(B) 5

(C) 3

(D) 6

Q30. $\sqrt{5^2 - 4^2} = ?$ 2

(A) 9

(B) 16

(C) 3

(D) 1

| | | | |
|---|--------------------------|---|------------------|
| Q7.What is the coefficient of x^2 in $-8x^2+4x+3$? | 1 | Q15.which number is NOT a perfect square? | 1 |
| (A) 4 | (B) -8 | (A) 180 | (B) 1575 |
| (C) 3 | (D) 1 | (C) 288 | (D) 400 |
| Q8.what is the degree of polynomial $2x^4-4x^2y^2+5y^5$ | 1 | Q16. What is the cube of 0.4 | 1 |
| (A) 4 | (B) 3 | (A) 0.64 | (B) 0.064 |
| (C) 2 | (D) 5 | (C) 0.0064 | (D) 0.00064 |
| Q9. $(a+b)^2 = ?$ | 1 | Q17.which among the followings is perfect square and perfect cubes both | 1 |
| (A) $a^2+2ab+b^2$ | (B) $a^2-2ab+b^2$ | (A) 125 | (B) 64 |
| (C) a^2+b^2 | (D) $a^2+2ab-b^2$ | (C) 100 | (D) 9 |
| Q10. $84^2-83^2 =?$ | 1 | Q18. Add the expressions: - $5xy, -2xy, -11xy, 8xy$ | 1 |
| (A) $84+83$ | (B) $84-83$ | (A) $26 xy$ | (B) $14 xy$ |
| (C) 84×83 | (D) $84 \div 83$ | (C) xy | (D) 0 |
| Q11. $(t-3)^2-(t+3)^2$ equals | 1 | Q19. $179 \times 179 - 21 \times 21 = ?$ | 1 |
| (A) $2t^2+18$ | (B) $-12t$ | (A) 31600 | (B) 63000 |
| (C) $12t$ | (D) 18 | (C) 179 | (D) 21 |
| Q12. $a^9 \div a^9 = ?$ | 1 | Q20.find the multiplication:- $(a^{1000})(a^{999})(ab)(c) (0) = ?$ | 1 |
| (A) 9 | (B) a | (A) 0 | (B) $a^{2000}bc$ |
| (C) a^{18} | (D)1 | (C) abc | (D) 1 |
| Q13.the cube root of a negative number is always_____ | 1 | Q21.if $\left(x + \frac{1}{x}\right) = 5$ than what will be the value of $\left(x^2 + \frac{1}{x^2}\right)$ | 2 |
| (A) Positive | (B) negative | (A)27 | (B)23 |
| (C) 0 | (D) none of these | (C) 25 | (D) 5 |
| Q14.Which among the following is not correct? | 1 | Q22.which of the following product is equal to x^2-5x-6 ? | 2 |
| (A) $\sqrt{0.4096} = 0.64$ | (B) $\sqrt{40.96} = 6.4$ | (A) $(x+1)(x-6)$ | (B) $(x-2)(x-3)$ |
| (C) $\sqrt{0.04096} = 0.064$ | (D) $\sqrt{4096} = 64$ | (C) $(x+2)(x-3)$ | (D) $(x-1)(x-5)$ |