



MATHS

BOOKS - MTG IIT JEE FOUNDATION

CUBES AND CUBE ROOTS

Illustration

1. Show that 189 is not a perfect cube.

2. is 1296 a perfect cube or not ?



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3. Examine if 1512 is a perfect cube .If not find the smallest number by which it must be multiplied so that the product is a perfect cube .Also find the smallest number by which it must be divided so that the quotient is a perfect cube. **4.** Find the cube of (i)4 (ii) 6 (iii) 12.



7. Write the digits in the unit place for the cube of each of the given numbers:

27



8. Find the cube roots of the following numbers:

(i)4096 (ii)857375



12. Fvaluate (i) $\sqrt[3]{\frac{216}{2197}}$ (ii) $\sqrt[3]{\frac{-125}{512}}$ Watch Video Solution **13.** Evaluate : $\frac{\sqrt[3]{15625 \times 216}}{\sqrt[3]{3375}}$ Watch Video Solution

1. Is 53240 a perfect cube? If not, then by which smallest natural number should 53240 be divided so that the quotient is a perfect cube?

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2. state true or false : Is 246 a perfect cube?

3. Using the method of successive subtraction examine whether or not the following numbers are perfect cubes: 130 (ii) 345 (iii) 792 (iv) 1331

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4. Is 68600 a perfect cube? If not, find the smallest number by which 68600 must be multiplied to get a perfect cube.



5. Prove that if a number is doubled, then its cube is eight times the cube of the given number.



7. Find the value of. $\sqrt[3]{392} imes \sqrt[3]{448}$.



10. Find the cube root of 1.331.



11. Observe the following pattern : $1^3 = 1$ $1^3 + 2^3 = (1+2)^2$ $1^3 + 2^3 + 3^3 = (1+2+3)^2$ Write the next three rows and calculate the value of $1^3 + 2^3 + 3^3 + + 9^3 + 10^3$ by the above pattern. **12.** Find the volume of a cube whose surface area is 150 m^2 .



13. For a big icecream of volume $2744cm^3$, Mukti wants to make a box. What should be the edge of box so that the block can be put into it?



14. Consider the following pattern:

 $egin{aligned} 2^3 - 1^3 &= 1 + 2 imes 1 imes 3 \ 3^3 - 2^3 &= 1 + 3 imes 2 imes 3 \ 4^3 - 3^3 &= 1 + 4 imes 3 imes 3 \end{aligned}$

Using the above pattern,find the value of the following :

 $7^3 - 6^3$.

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15. Find the value of $\left(27 imes2744
ight)^{1/3}$





Ncert Section Exercise 7 1

 Which of the following numbers are not perfect cubes? (i) 216 (ii) 128 (iii) 1000 (iv) 100 (v) 46656

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2. Which of the following numbers are not perfect cubes? (i) 216 (ii) 128 (iii) 1000 (iv) 100



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5. Which of the following numbers are not perfect cubes? (i) 216 (ii) 128 (iii) 1000 (iv) 100 (v) 46656

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6. Find the smallest number by which each of the following numbers must be multiplied to

obtain a perfect cube. (i) 243 (ii) 256 (iii) 72 (iv)

675 (v) 100



7. Find the smallest number by which each of the following numbers must be multiplied to obtain a perfect cube. (i) 243 (ii) 256 (iii) 72 (iv) 675 (v) 100

8. Find the smallest number by which each of the following numbers must be multiplied to obtain a perfect cube. (i) 243 (ii) 256 (iii) 72 (iv) 675 (v) 100

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9. Find the smallest number by which each of the following numbers must be multiplied to obtain a perfect cube. (i) 243 (ii) 256 (iii) 72 (iv) 675 (v) 100



10. Find the smallest number by which each of the following numbers must be multiplied to obtain a perfect cube. (i) 243 (ii) 256 (iii) 72 (iv) 675 (v) 100

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11. Find the smallest number by which each of

the following numbers must be divided to

obtain a perfect cube. (i) 81 (ii) 128 (iii) 135 (iv)

192 (v) 704



12. Find the smallest number by which each of the following numbers must be divided to obtain a perfect cube. (i) 81 (ii) 128 (iii) 135 (iv) 192 (v) 704

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15. Find the smallest number by which each of the following numbers must be divided to obtain a perfect cube. (i) 81 (ii) 128 (iii) 135 (iv) 192 (v) 704

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16. Parikshit makes a cuboid of plasticine of sides 5cm, 2cm, 5cm. How many such cuboids will he need to form a cube?



Ncert Section Exercise 7 2

 Find the cube root of each of the following numbers by prime factorisation method. (i) 64
 (ii) 512 (iii) 10648 (iv) 27000 (v) 15625 (vi) 13824
 (vii) 110592 (viii) 46656 (ix) 175616 (x) 91125



2. Find the cube root of each of the following numbers by prime factorisation method. (i) 64 (ii) 512 (iii) 10648 (iv) 27000 (v) 15625 (vi) 13824 (vii) 110592 (viii) 46656 (ix) 175616 (x) 91125



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(ii) 512 (iii) 10648 (iv) 27000 (v) 15625 (vi) 13824
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7. Find the cube root of each of the following numbers by prime factorisation method.110592



8. Find the cube root of each of the following

numbers by prime factorisation method.

46656



9. Find the cube root of each of the following numbers by prime factorisation method.175616

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10. Find the cube root of each of the following

numbers by prime factorisation method. 91125



Ncert Section Exercise 7 2 State True Or False

1. Cube of an odd number is even.



2. State true or false. (i) Cube of any odd number is even. (ii) A perfect cube does not end with two zeros. (iii) If square of a number ends with 5, then its cube ends with 25. (iv) There is no perfect cube which ends with 8. (v)



3. State true or false. (i) Cube of any odd number is even. (ii) A perfect cube does not end with two zeros. (iii) If square of a number ends with 5, then its cube ends with 25. (iv) There is no perfect cube which ends with 8. (v)

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4. State true or false.

- (i) Cube of any odd number is even.
- (ii) A perfect cube does not end with two

zeros.

(iii) If square of a number ends with 5, then

its cube ends with 25.

(iv) There is no perfect cube which ends with 8.

(v) The cube of a two digit number may bea three digit number.

(vi) The cube of a two digit number may have seven or more digits.

(vii) The cube of a single digit number may

be a single digit number.

5. State true or false. (i) Cube of any odd number is even. (ii) A perfect cube does not end with two zeros. (iii) If square of a number ends with 5, then its cube ends with 25. (iv) There is no perfect cube which ends with 8. (v)

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Ncert Section Exercise 7 2

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2. You are told that 1,331 is a perfect cube. Can you guess without factorisation what is its cube root? Similarly, guess the cube roots of 4913, 12167, 32768.

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Exercise Multiple Choice Question Level 1

1. Which of the following number is a prefect

cube?

A. 1525

B. 1728

C. 1458

D. 3993

Answer: B

2. Which of the following numbers is not a

perfect cube?

A. 2197

B. 512

C. 2916

D. 343

Answer: C
3. What least number must be multiplied to 3456 so that the priduct decomes a perfect cube?

- **A.** 2
- **B.** 3
- **C.4**
- D. 6

Answer: C



4. $\sqrt[3]{5832} = ?$

A. 22

B. 18

C. 16

D. 14

Answer: B



5. Evaluate : $\sqrt[3]{\frac{1728}{2744}}$

A.
$$\frac{6}{11}$$

B. $\frac{6}{7}$
C. $\frac{3}{4}$
D. $\frac{12}{17}$

Answer: B



Answer: A



7. $\sqrt[3]{144} imes \sqrt[3]{12}$ equals

A. 12

B. 14

C. 13

D.6

Answer: A



8. Possible unit digit of cube root of a number

ending with 5 is

A. 0

B. 5

C.7

D. 9

Answer: B

9. The surface area of a cube is $384cm^2$. What

is its volume?

A. $1296 cm^3$

B. $648 cm^3$

C. $846cm^{3}$

D. $512cm^3$

Answer: D

10. if $\left(25 ight)^{x}=3125$,then x equals

A. 2/5

B. 5/2

- C.1/4
- **D.** 1/5

Answer: B

11. By what least number should 9720 be multiplied to get a perfect cube?

A. 15

B.25

C. 5

D. 75

Answer: D

12. if $\sqrt[3]{(156+x)} = 12$,them the value of x is

A. 1570

B. 1572

C. 1560

D. 1512

Answer: B



13. The value of
$$\frac{\sqrt[3]{531441}}{\sqrt[3]{729}}$$
 is

A. 7

B.8

C. 9

D. 10

Answer: C

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14. if $\sqrt[3]{x-12}=19$,then the value of x is

A. 6871

B. 6072

C. 6889

D. 5080

Answer: A

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15. The value of $\left(-0.4
ight)^3$ is

A.0.640

B. 0.064

C. -0.064

D. - 0.640

Answer: C



16.
$$3^3 - (-0.6)^3 =$$

A. 27.216

B. 26.784

C. -26.784

D. -27.216

Answer: A

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17.
$$\frac{16}{9} imes \left(-1 \frac{1}{2} \right)^3 =$$

A. -12

B. -6

C. $-\frac{8}{3}$ **D.** $\frac{8}{9}$





18. Which of the following is the cube of an integer?

A. 200

B. 9

C. 512

D. 1024

Answer: C

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19.
$$\sqrt[3]{3} - \frac{17}{27} =$$

A. $\frac{4}{3}$
B. $\frac{3}{4}$
C. $\frac{1}{4}$
D. $\frac{1}{2}$

Answer: A



20. $\sqrt[3]{0.125} + 3 =$

A. 8

B. 3.5

C. 2

D. 0.35

Answer: B

21.
$$\sqrt[3]{3\frac{3}{8}}$$

A. $\frac{3}{2}$
B. $\frac{3}{4}$
C. $\frac{1}{4}$
D. $\frac{1}{3}$

=

Answer: A

22. Calculate the value of $\sqrt[3]{64} + \sqrt{9^2}$

A.4

B. 3

C. 13

D. 77

Answer: C



A.
$$\frac{5}{3}$$

B. $\frac{4}{3}$
C. $\frac{3}{2}$
D. $\frac{13}{9}$

Answer: B

24. $\sqrt[3]{2744} + \sqrt{9^2} =$

A. O

- **B.** 21
- C. 23
- **D.** $\frac{5}{4}$

Answer: C

25. Find the value of $\sqrt[3]{512} imes \sqrt[3]{3.375}$

A. 12

B. 9.5

C. 8

D. 1.5

Answer: A

26. Which of the following numbers are cubes of negative integers -64 (ii) -1056 (iii) -2197 - 2744 (v) 42875

A. 396

B. 4096

C. -81

D. -2744

Answer: D

27. Which of the following numbers is the cube

of an odd number?

A. 729

B. 2744

C. 32768

D. 1728

Answer: A

28. Which of the following numbers is the

cube of an even number?

A. 6859

B. 649

C. 13824

D. 42875

Answer: C

29. The symbol $\sqrt[3]{}$ denotes

A. square

B. cube

C. square root

D. cube root

Answer: D

30. Which of the following is equal to 9?

A. $\sqrt{729}$

B. $3\sqrt{729}$



D. $(3)^{3}$

Answer: C



31. Find the smallest number by which 392 must be multiplied so that the product is a perfect cube.

A. 5

B. 3

C. 2

D. 7

Answer: D



32. Find the cube of $7\frac{2}{5}$



Answer: A



33. The volume of a cube is $778688mm^3$. Find

the measure of the edge.

A. 62 mm

B. 72 mm

C. 82 mm

D. 92 mm

Answer: D

34. The cube root of 97336 is

A. 17

B. 18

C. 46

D. 23

Answer: C



35. Find the side of a cube whose volume is





Answer: A

1. What is the least number by which 13720 must be divided so that the quotient is a perfect cube?

- **A.** 2
- **B.** 3
- **C.** 5
- **D.**6

Answer: C



2. $\sqrt[3]{(0.000064)}$ is equal to

A. 0.04

B. 0.4

C. 0.004

D. 0.02

Answer: A

3. The value of $\frac{(2.3)^3 - 0.027}{(2.3)^2 + 0.69 + 0.09}$ is 2 (b)

3 (c) 2.327 (d) 2.273

A. 2

B. 2.273

C. 2.327

D. none of these

Answer: A





A. 30

B.40

C. 20

D. 50

Answer: C




A. 7

B. -2

C. 8

D. -5

Answer: B



6. Observe the pattern given below

 $1^{3} = 1$

- $2^3=3+5$
- $3^3 = 7 + 9 + 11$

 $4^3 = 13 + 15 + 17 + 19$

According to this pattern, the number of consecutive odd numbers whose sum equals 9^3 is

A. 3

B.9

C. 12

D. 15

Answer: B

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7. Evaluate :
$$\sqrt[3]{57\frac{132}{343}}$$

A.
$$\frac{27}{7}$$

B. $\frac{23}{7}$
C. $\frac{23}{5}$
D $\frac{27}{5}$

8





8. The volume of a cubical box is 474.552 cubic metres. Find the length of each side of the box.

A. 9.8 m

B. 7.8 m

C. 7.4 m

D. 9.4 m





9. The one's digit of $107^3 \ {\rm is}$

A. 3

B.7

C. 9

D. 0

Answer: A



D. 3.2

Answer: D



11. Evalutions : $\sqrt[3]{\sqrt{0.000729}}$

A. 0.2

- **B. O.3**
- C. 0.5
- D. 0.4

Answer: B

12. Find the smallest number which should be multiplied by 1575 so that the product becomes a perfect cube.

A. 315

B. 105

C. 735

D. 147

Answer: C





A.
$$\frac{7}{5}$$

B. $\frac{7}{11}$
C. $\frac{5}{11}$
D. $\frac{11}{7}$

Answer: B

14. The smallest number by which 33075 must

be multiplied to obtain a perfect cube is

A. 12

B. 35

C. 6

D. 15

Answer: B

15. Evalution : $\sqrt[3]{32.768}$

A. 3.2

B. 4.2

- C. 5.2
- D. 1.2

Answer: A



Exercise Assertion Reason Type

1. Write the cubes of all natural numbers between 1 and 10 and verify the following statements : Cubes of all odd natural numbers are odd. Cubes of all even natural numbers are even.

A. If both asseration and reason are true and reason is the correct explanation of assertion.

B. If both assertion and reason are true but

reason is not the correct explanation of

assertion.

C. If assartion is true but reason is false.

D. If assertion is false but reason is true.

Answer: Assertion : True; Reason : False

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2. Assertion : $14^3 - 2744, 24^3 - 13822$

Reason : The digits of number end with 4, then

cubes of the number ends with same digit 4.

A. If both asseration and reason are true

and reason is the correct explanation of

assertion.

B. If both assertion and reason are true but reason is not the correct explanation of assertion.

C. If assartion is true but reason is false.

D. If assertion is false but reason is true.

Answer: Assertion : false; Reason : True

3. Write the cubes of 5 natural number which are of form $3n + 1(e\dot{g}. 4, 7, 10)$ and verify the following : The cube of a natural number of the form 3n + 1 is a natural number of the same form i.e. when divided by 3 it leaves the remainder 1

A. If both asseration and reason are true and reason is the correct explanation of assertion. B. If both assertion and reason are true but

reason is not the correct explanation of assertion.

C. If assartion is true but reason is false.

D. If assertion is false but reason is true.

Answer: correct explanation of assertion.

4. Assertion : We know that

 $9 \div 3 = 3$ and $9^3 \div 3^3 = 27$

 $8 \div 2 = 4$ and $8^3 \div 2^3 = 64$

Reason : If a divides b, then a^3 divides b^3 .

A. If both asseration and reason are true

and reason is the correct explanation of

assertion.

B. If both assertion and reason are true but reason is not the correct explanation of assertion. C. If assartion is true but reason is false.

D. If assertion is false but reason is true.

Answer: correct explanation of assertion.

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5. Assertion : The unit digit of cube of 528, 38

and 1298 is 2.

Reason : If a number ends with 8, then its cube

ends with 2.

A. If both asseration and reason are true

and reason is the correct explanation of

assertion.

- B. If both assertion and reason are true but reason is not the correct explanation of assertion.
- C. If assartion is true but reason is false.
- D. If assertion is false but reason is true.

Answer: correct explanation of assertion.

Exercise Comprehension Type

1. Three numbers are to one another 2:3:4. The sum of their cubes is 33957. Find the numbers.

A. 2, 4, 8

B. 14,21,28

C. 6,9,18

D. 5, 10, 15





2. Three numbers are in the ratio 2:3:5 and the sum of these numbers is 800. Find the numbers

A. 8, 64, 512

B. 2744, 726, 8849

C. 2744, 9262, 21952

D. 7261, 125, 1000

Answer: c



3. The volume of cube is $9261000 \ m^3$. Find the side of the cube.

A. 210 m

B. 200 m

C. 220 m

D. 250 m

Answer: a



- 4. The volume of a cube is 9261000 m^2 If the volume of the cube is increased by 1387000 m^3 then the new side of the cube is
 - A. 250 m
 - **B. 200 m**
 - **C. 210 m**
 - D. 220 m

Answer: d



5. The volume of a cube is 9261 m^2 , then area of one face of the cube will be

A. 216 m^2

- **B. 36** m^2
- **C. 441** m^2

D. 24 m^2



2. Find the unit's digit of cube of 8888.



4. Find the smallest number by which 96 must

be multiplied so that the product is a perfect

cube.

5. What is the smallest number by which 3087 must be divided so that the quotient is a perfect cube ?

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6. Show that 9261 is a perfect cube.

7. Consider the following pattern.

$$egin{aligned} 2^3 - 1^3 &= 1 + 2 imes 1 imes 3 \ 3^3 - 2^3 &= 1 + 3 imes 2 imes 3 \ 4^3 - 3^3 &= 1 + 4 imes 3 imes 3 \end{aligned}$$

Using the above pattern find the value of 7^3-6^3

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8. Find the cube root of 10648 through Prime

factorization





Exercise Subjective Problems Short Answer Type

1. Is 8000 a perfect cube? What is the number

whose cube is 8000?

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2. Find the cube root of 389017.

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3. Find the cube root of 46656.





4. Find the smallest number which when multiplied with 3600 will make the product a perfect cube. Further, find the cube root of the product.

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5. What is the smallest number by which 8192

must be divided so that quotient is a perfect

cube? Also find the cube root of the quotient

so obtained.







10. Find the cube root of 262144 by prime factorisation method.



2. Find the cube root of 2300 imes 5290.



Exercise Integer Numerical Value Type

1. If
$$\sqrt[3]{\frac{a^6 \times b^3 \times c^{21}}{c^9 \times a^{12}}} = \frac{bc^k}{a^{k/2}}$$
 then k=____.

2. The cube of the number ρ is 16 times the number. Than find ρ where $\rho \neq 0$ and

$$ho
eq -4$$
 .
3. The digit in the units place for the cube of a

four digit number of the form xyz8



4. The digit in the units place for the cube of

the number 1234567 is _____ .

5. A number is multiplied 3 times by itself and then 61 is subtracted from the product obtained. If the final result is 9200, then the number is

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6. $\sqrt[3]{0.125} + \sqrt[3]{0.729} = rac{n}{10}$. Find n.



9. The cube of a number ending in 3 ends in



1. Simplify :
$$\left(\sqrt[6]{27}-\sqrt{6rac{3}{4}}
ight)^2$$

A.
$$\frac{3}{4}$$

B.
$$\frac{\sqrt{3}}{2}$$

C. $\frac{\sqrt[3]{3}}{4}$
D. $\frac{3}{2}$

Answer: a

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2. By what least number 3600 must be multiplied to make it a perfect cube?

B. 50

C. 300

D. 450

Answer: D

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is

B. 0.279

C. 0.479

D. 0

Answer: B



4. Evalution :
$$\sqrt[3]{-\frac{0.000008}{-0.000216}}$$

A. 3

B.
$$-1/3$$

 $\mathbf{C}.-3$

D. 1/3

Answer: D



5. Evalution : $\sqrt[3]{0.008} - \sqrt[3]{-512} + \sqrt[3]{2.197}$

A. 9.3

B. -6.5

C. 9.5

D. 6.5

Answer: C









7. Cube root of a number when divided by the smallest prime number gives square of the smallest prime number, find the number.

A. 512

B.8

C. 64

D. 125





8. If a number has digit 2 at unit place, then its cube has digit _____ at its unit place.

A. 1

B. 2

C. 8

D. 4



9. Which of the following in incorrect?

A. The cube of an even natural number is

always even.

B. The root of a rational number $\frac{x}{y}$ is $\frac{\sqrt[3]{x}}{\sqrt[3]{y}}$.

C. The cube root of a negative number is

always pisitive.

D. 2197 is a perfect cube.

Answer: C



10.
$$\sqrt[3]{1 - \frac{127}{343}}$$
 के बराबर है?
A. $\frac{5}{9}$
B. $1 - \frac{1}{7}$
C. $\frac{4}{7}$
D. $1 - \frac{2}{7}$

Answer: B



11. If
$$\sqrt[3]{rac{x}{729}} + \sqrt[3]{rac{8x}{729}} + \sqrt[3]{rac{27x}{5832}} = 1$$
 , then

find the valueof x.

A. 1

B.8

C. 3

D. 4

Answer: B



12. $\left(\sqrt[3]{3} + \sqrt[3]{2}\right)\left(\sqrt[3]{9} + \sqrt[3]{4} - \sqrt[3]{6}\right) =$

A. 5

- **B.** $\sqrt[9]{5}$
- C. $\sqrt[6]{5}$
- **D.** $\sqrt[3]{5}$



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13.
$$rac{\sqrt[3]{1.728} - \sqrt[3]{0.216}}{\sqrt[3]{2.197} - \sqrt[3]{0.343}} =$$

A. 1

B. 1

C. 2

D. -2

Answer: A



14. If $3^9 + 3^{12} + 3^{15} + 3^n$ is a perfect cube,

$n \in N$,then the value of n is

A. 18

B. 17

C. 14

D. 16

Answer: C



15. if
$$x = \sqrt[3]{2\frac{93}{125}}$$
, then the value of x is
A. $2\frac{1}{5}$
B. $1\frac{2}{5}$
C. $3\frac{4}{5}$
D. $4\frac{1}{5}$

Answer: B



16. if $\sqrt[3]{x \times 0.000009} = 0.3$,then the value of \sqrt{x} is A. 27 B. 81 C. 9

D. 18

Answer: B



Answer: C



18. If
$$\sqrt[3]{rac{x}{729}} + \sqrt[3]{rac{27x}{3375}} = 1$$
, then find the

value of x.

A.
$$\frac{79507}{3375}$$

B. $\frac{91125}{2744}$
C. $\frac{2025}{196}$
D. $\frac{443}{125}$

Answer: B

19. if
$$x = \sqrt[3]{13\frac{103}{125}}$$
, then the value of x is
A. $2\frac{1}{5}$
B. $2\frac{2}{5}$
C. $3\frac{4}{5}$
D. $4\frac{1}{5}$

Answer: B



20. Evaluate :
$$\sqrt[3]{\frac{4096}{64}} + 3\sqrt[3]{\frac{3375}{125}}$$

A. 12

B. 13

C. -13

D. -12

Answer: B