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 RS Aggarwal Solutions Class 8 Mathematics Cubes and Cube RootsEx 4A

## Q1

Answer:
(i) $(8)^{3}=(8 \times 8 \times 8)=512$.

Thus, the cube of 8 is 512 .
(ii) $(15)^{3}=(15 \times 15 \times 15)=3375$.

Thus, the cube of 15 is 3375 .
(iii) $(21)^{3}=(21 \times 21 \times 21)=9261$.

Thus, the cube of 21 is 9261 .
(iv) $(60)^{3}=(60 \times 60 \times 60)=216000$.

Thus, the cube of 60 is 216000 .
Q2
Answer:
(i) $(1.2)^{3}=(1.2 \times 1.2 \times 1.2)=1.728$

Thus, the cube of 1.2 is 1.728 .
(ii) $(3.5)^{3}=(3.5 \times 3.5 \times 3.5)=42.875$

Thus, the cube of 3.5 is 42.875 .
(iii) $(0.8)^{3}=(0.8 \times 0.8 \times 0.8)=0.512$

Thus, the cube of 0.8 is 0.512 .
(iv) $(0.05)^{3}=(0.05 \times 0.05 \times 0.05)=0.000125$

Thus, the cube of 0.05 is 0.000125 .

Q3
Answer :
(i) $\left(\frac{4}{7}\right)^{3}=\left(\frac{4}{7} \times \frac{4}{7} \times \frac{4}{7}\right)=\left(\frac{64}{343}\right)$

Thus, the cube of $\left(\frac{4}{7}\right)$ is $\left(\frac{64}{343}\right)$.
(ii) $\left(\frac{10}{11}\right)^{3}=\left(\frac{10}{11} \times \frac{10}{11} \times \frac{10}{11}\right)=\left(\frac{1000}{1331}\right)$

Thus, the cube of $\left(\frac{10}{11}\right)$ is $\left(\frac{1000}{1331}\right)$.
(iii) $\left(\frac{1}{15}\right)^{3}=\left(\frac{1}{15} \times \frac{1}{15} \times \frac{1}{15}\right)=\left(\frac{1}{3375}\right)$

Thus, the cube of $\left(\frac{1}{15}\right)$ is $\left(\frac{1}{3375}\right)\left(1 \frac{3}{10}\right)^{3}=\left(\frac{13}{10}\right)^{3}=\left(\frac{13}{10} \times \frac{13}{10} \times \frac{13}{10}\right)=\left(\frac{2197}{1000}\right)$
Thus, the cube of $\left(1 \frac{3}{10}\right)$ is $\left(\frac{2197}{1000}\right)$
Q4

## Answer:

(i) 125

Resolving 125 into prime factors:
$125=5 \times 5 \times 5$
Here, one triplet is formed, which is $5^{3}$. Hence, 125 can be expressed as the product of the triplets of 5.

Therefore, 125 is a perfect cube.
(ii) 243 is not a perfect cube.
(iii) 343

Resolving 125 into prime factors:
$343=7 \times 7 \times 7$
Here, one triplet is formed, which is $7^{3}$. Hence, 343 can be expressed as the product of the triplets of 7.

Therefore, 343 is a perfect cube.
(iv) 256 is not a perfect cube.

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 (v) 8000Resolving 8000 into prime factors:
$8000=2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 5 \times 5 \times 5$
Here, three triplets are formed, which are $2^{3}, 2^{3}$ and $5^{3}$. Hence, 8000 can be expressed as the product of the triplets of 2,2 and 5 , i.e. $2^{3} \times 2^{3} \times 5^{3}=20^{3}$
Therefore, 8000 is a perfect cube.
(vi) 9261

Resolving 9261 into prime factors:
$9261=3 \times 3 \times 3 \times 7 \times 7 \times 7$
Here, two triplets are formed, which are $3^{3}$ and $7^{3}$. Hence, 9261 can be expressed as the product of the triplets of 3 and 7 , i.e. $3^{3} \times 7^{3}=21^{3}$
Therefore, 9261 is a perfect cube.
(vii) 5324 is not a perfect cube
(viii) 3375

Resolving 3375 into prime factors:
$3375=3 \times 3 \times 3 \times 5 \times 5 \times 5$.
Here, two triplets are formed, which are $3^{3}$ and $5^{3}$. Hence, 3375 can be expressed as the product of
Q5 the triplets of 3 and 5 , i.e. $3^{3} \times 5^{3}=15^{3}$
Therefore, 3375 is a perfect cube.

The cubes of even numbers are always even. Therefore, 216,512 and 1000 are the cubes of even numbers.

```
216=2\times2\times2\times3\times3\times3=2 2 * 3}=\mp@subsup{3}{}{3}=\mp@subsup{6}{}{3
512=2\times2\times2\times2\times2\times2\times2\times2\times2=}=\mp@subsup{2}{}{3}\times\mp@subsup{2}{}{3}\times\mp@subsup{2}{}{3}=\mp@subsup{8}{}{3
```



```
O6
```


## Answer :

The cube of an odd number is an odd number. Therefore, 125, 343 and 9261 are the cubes of odd numbers.

```
125=5\times5\times5 = 5
343=7\times7\times7=7 7
9261=3\times3\times3\times7\times7\times7= 3}\mp@subsup{3}{}{3}\times\mp@subsup{7}{}{3}=2\mp@subsup{1}{}{3
Q7
```

Answer:
1323

| 3 | 1323 |
| :--- | :--- |


| 3 | 441 |
| :--- | :--- |
| 3 | 147 |


| 3 | 147 |
| :--- | :--- |
| 7 | 49 |


| 3 | 49 |
| :--- | :--- |
| 7 | 7 |
|  | 1 |

$1323=3 \times 3 \times 3 \times 7 \times 7$.
To make it a perfect cube, it has to be multiplied by 7
Q8

## Answer :

2560

2560 can be expressed as the product of prime factors in the following manner:

| 2 | 2560 |
| :--- | :--- |
| 2 | 1280 |
| 2 | 640 |
| 2 | 320 |
| 2 | 160 |
| 2 | 80 |
| 2 | 40 |
| 2 | 20 |
| 2 | 10 |
| 5 | 5 |
|  | 1 |

$2560=2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 5$

To make this a perfect square, we have to multiply it by $5 \times 5$.
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## Answer :

1600

1600 can be expressed as the product of prime factors in the following manner:

| 2 | 1600 |
| :--- | :--- |
| 2 | 800 |
| 2 | 400 |
| 2 | 200 |
| 2 | 100 |
| 2 | 50 |
| 5 | 25 |
| 5 | 5 |
|  | 1 |

$1600=2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 5 \times 5$

Therefore, to make the quotient a perfect cube, we have to divide 1600 by: $5 \times 5=25$

Q10
Answer :

| 2 | 8788 |
| ---: | :--- |
| 2 | 4394 |
| 13 | 2197 |
| 13 | 169 |
| 13 | 13 |
|  | 1 |

8788
8788 can be expressed as the product of prime factors as $2 \times 2 \times 13 \times 13 \times 13$.
Therefore, 8788 should be divided by 4 , i.e. $(2 \times 2)$, so that the quotient is a perfect cube.

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## Cubes and Cube Roots

Ex 4B

Q1
Answer:
$(25)^{3}$
Here, $a=2$ and $b=5$

| Using the formula $a^{3}+3 a^{2} b+3 a b^{2}+b^{3}$ : |
| :--- |
| 4 <br> $\times 2$ |
| 4 <br> 8 |
| 7 |

$\therefore(25)^{3}=15625$

Q2
Answer:
$(47)^{3}$
Here, $a=4$ and $b=7$

| Using the formula $a^{3}+3 a^{2} b+3 a b^{2}+b^{3}$ : |
| :--- |
| 16 16 49 49 <br> $\times 4$    |
| 64 <br> +39 |
| $\mathbf{1 0 3}$ |

$\therefore(47)^{3}=103823$
Q3
Answer:
$(68)^{3}$
Here, $a=6$ and $b=8$

| Using the formula $a^{3}+3 a^{2} b+3 a b^{2}+b^{3}$ : |
| :--- |
| 36 <br> $\times 6$ |
| 26 64 64 <br> 216   <br> +98   |
| $\mathbf{3 1 4}$ |

$\therefore(68)^{3}=314432$

Q4
Answer:
$(84)^{3}$

Here, $a=8$ and $b=4$

| Using the formula $a^{3}+3 a^{2} b+3 a b^{2}+b^{3}$ : |  |  |  |
| :---: | :---: | :---: | :---: |
| 64 | 64 | 16 | 16 |
| $\times 8$ | $\times 12$ | $\times 24$ | $\times 4$ |
| 512 | 768 | 384 |  |
| + 80 | + 39 | + 6 | 64 |
| 592 | 807 | 390 |  |

$\therefore(84)^{3}=592704$
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## Ex 4C

```
Q1
Answer:
\sqrt{3}{64}
By prime factorisation:
64=2\times2\times2\times2\times2\times2
    =(2\times2\times2)\times(2\times2\times2)
    \therefore\sqrt{3}{64}=\sqrt{3}{(2\mp@subsup{)}{}{3}\times(2\mp@subsup{)}{}{3}}=(2\times2)=4
```

Q2
Answer:
$\sqrt[3]{343}$
By prime factorisation:
$343=7 \times 7 \times 7$
$=(7 \times 7 \times 7)$
$\therefore \sqrt[3]{343}=\sqrt[3]{7^{3}}=7$
Q3
Answer:
$\sqrt[3]{729}$
By prime factorisation:

| 3 | 729 |
| :--- | :--- |
| 3 | 243 |
| 3 | 81 |
| 3 | 27 |
| 3 | 9 |
| 3 | 3 |
|  | 1 |

$729=3 \times 3 \times 3 \times 3 \times 3 \times 3$
$=(3 \times 3 \times 3) \times(3 \times 3 \times 3)$
$\therefore \sqrt[3]{729}=(3 \times 3)=9$

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Answer:
$\sqrt[3]{1728}$
By prime factorisation:

| 2 | 1728 |
| :--- | :--- |
| 2 | 864 |
| 2 | 432 |
| 2 | 216 |
| 2 | 108 |
| 2 | 54 |
| 3 | 27 |
| 3 | 9 |
| 3 | 3 |
|  | 1 |

```
\(1728=2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 3\)
\(=(2 \times 2 \times 2) \times(2 \times 2 \times 2) \times(3 \times 3 \times 3)=2^{3} \times 2^{3} \times 3^{3}\)
```

$\therefore \sqrt[3]{1728}=(2 \times 2 \times 3)=12$

Q5
Answer :
$\sqrt[3]{9261}$
By prime factorisation:

| 3 | 9261 |
| :--- | :--- |
| 3 | 3087 |
| 3 | 1029 |
| 7 | 343 |
| 7 | 49 |
| 7 | 7 |
|  | 1 |

$$
\begin{aligned}
9261 & =3 \times 3 \times 3 \times 7 \times 7 \times 7 \\
& =(3 \times 3 \times 3) \times(7 \times 7 \times 7)=3^{3} \times 7^{3}
\end{aligned}
$$

$$
\therefore \sqrt[3]{9261}=(3 \times 7)=21
$$

Q6
Answer :

$\therefore \sqrt[3]{4096}=(2 \times 2 \times 2 \times 2)=16$

Q7

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Answer:

```
\sqrt{3}{8000}
By prime factorisation:
```





```
\therefore\sqrt{3}{8000}}=(2\times2\times5)=2
```

Q8
Answer:
$\sqrt[3]{3375}$
By prime factorisation:

| 5 | 3375 |
| :--- | :--- |
| 5 | 675 |
| 5 | 135 |
| 3 | 27 |
| 3 | 9 |
| 3 | 3 |
|  | 1 |

$$
\begin{aligned}
3375 & =3 \times 3 \times 3 \times 5 \times 5 \times 5 \\
& =(3 \times 3 \times 3) \times(5 \times 5 \times 5)
\end{aligned}
$$

$$
\therefore \sqrt[3]{3375}=(3 \times 5)=15
$$

Q9
Answer:
$\sqrt[3]{-216}$
By prime factorisation:

$216=2 \times 2 \times 2 \times 3 \times 3 \times 3$
$=(2 \times 2 \times 2) \times(3 \times 3 \times 3)$
$\sqrt[3]{-216}=-(2 \times 3)=-6$
$\therefore \sqrt[3]{-216}=-(\sqrt[3]{216})=-6$

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## Answer :

$\sqrt[3]{-512}$
By prime factorisation

| 2 | 512 |
| :--- | :--- |
| 2 | 256 |
| 2 | 128 |
| 2 | 64 |
| 2 | 32 |
| 2 | 16 |
| 2 | 8 |
| 2 | 4 |
| 2 | 2 |
|  | 1 |

$\sqrt[3]{512}=2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

$$
=(2 \times 2 \times 2) \times(2 \times 2 \times 2) \times(2 \times 2 \times 2)
$$

$\sqrt[3]{-512}=-\sqrt[3]{(2 \times 2 \times 2)}=-8$
$\therefore \sqrt[3]{-512}=-(\sqrt[3]{512})=-8$
Q11
Answer :
$\sqrt[3]{-1331}$
By prime factorisation:
$\sqrt[3]{1331}=\sqrt[3]{11 \times 11 \times 11}$

| 11 | 1331 |
| :--- | :--- | :--- |
| 11 | 121 |


| 11 | 121 |
| :--- | :--- |
| 11 | 11 |
|  | 1 |

$\sqrt[3]{-1331}=-(11 \times 11 \times 11)^{\frac{1}{3}}=-11$
$\therefore \sqrt[3]{-1331}=-(\sqrt[3]{1331})=-11$

Q12
Answer:
$\sqrt[3]{\frac{27}{64}}$
By prime factorisation:

|  |  |
| :--- | :--- | :--- |
| 3 | 27 |
| 3 | 9 |
| 3 | 3 |
|  | 1 |$\quad$| 2 | 64 |
| :--- | :--- | :--- |
|  | 32 |
| 2 | 16 |
| 2 | 8 |
| 2 | 4 |
| 2 | 2 |
|  | 1 |

$\sqrt[3]{\frac{27}{64}}=\frac{\sqrt[3]{27}}{\sqrt[3]{64}}=\frac{\sqrt[3]{(3 \times 3 \times 3)}}{\sqrt[3]{(2 \times 2 \times 2) \times(2 \times 2 \times 2)}}=\frac{\sqrt[3]{(3 \times 3 \times 3)}}{\sqrt[3]{(4 \times 4 \times 4)}}=\frac{3}{4}$
$\therefore \sqrt[3]{\frac{27}{64}}=\frac{3}{4}$

Q13
Answer :
$\sqrt[3]{\frac{125}{216}}$
By prime factorisation:

$\left.$| 5 | 125 |
| :--- | :--- | :--- |
| 5 | 25 |
| 5 | 5 |
|  | 1 |$\quad$| 2 |
| :--- |
| 2 | \right\rvert\, $108 \cdot 1 .$| 2 |
| :--- |
| 3 |

$\sqrt[3]{\frac{125}{216}}=\frac{\sqrt[3]{5 \times 5 \times 5}}{\sqrt[3]{(2 \times 2 \times 2) \times(3 \times 3 \times 3)}}=\frac{\sqrt[3]{5 \times 5 \times 5}}{\sqrt[3]{(6 \times 6 \times 6)}}=\frac{5}{6}$
$\therefore \sqrt[3]{\frac{125}{216}}=\frac{5}{6}$

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RS Aggarwal Solutions Class 8 Mathematics Q14

Answer:

| $\sqrt[3]{\frac{-27}{125}}$ |  |
| :--- | :--- |
| 3 | 27 |
| 3 | 9 |
| 3 | 3 |
|  | 1 |

$$
\begin{array}{l|l}
5 & 125 \\
\hline 5 & 25 \\
\hline 5 & 5 \\
\hline & 1
\end{array}
$$

By factorisation:
$\sqrt[3]{\frac{27}{125}}=\sqrt[3]{\frac{3 \times 3 \times 3}{5 \times 5 \times 5}}$
$\therefore \sqrt[3]{\frac{-27}{125}}=\frac{-3}{5}$

Q15
Answer:
$\sqrt[3]{\frac{-64}{343}}$
On factorisation:

| 2 | 64 |
| :--- | :--- |
| 2 | 32 |
| 2 | 16 |
| 2 | 8 |
| 2 | 4 |
| 2 | 2 |
|  | 1 |


$\sqrt[3]{\frac{64}{343}}=\sqrt[3]{\frac{2 \times 2 \times 2 \times 2 \times 2 \times 2}{7 \times 7 \times 7}}$
$\therefore \sqrt[3]{\frac{-64}{343}} \frac{-4}{7}$

Q16
Answer:

```
\sqrt{3}{64\times729}
\sqrt{3}{64\times729}=\sqrt{3}{64}\times\sqrt{3}{729}
    = \sqrt{3}{4\times4\times4}}\times\sqrt{3}{(3\times3\times3)\times(3\times3\times3)
    = \sqrt{3}{4\times4\times4}\times\sqrt{3}{(9\times9\times9)}
\sqrt{3}{64\times729}=(4)\times(9)=36
```

Q17
Answer :


On factorisation:
$\sqrt[3]{\frac{729}{1000}}=\frac{\sqrt[3]{(3 \times 3 \times 3) \times(3 \times 3 \times 3)}}{\sqrt[3]{(2 \times 2 \times 2) \times(5 \times 5 \times 5)}}=\frac{\sqrt[3]{9 \times 9 \times 9}}{\sqrt[3]{10 \times 10 \times 10}}$
$\sqrt[3]{\frac{729}{1000}}=\frac{9}{10}$

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RS Aggarwal Solutions Class 8 Mathematics Answer :

| 2 | 512 |
| :--- | :--- |
| 2 | 256 |
| 2 | 128 |
| 2 | 64 |
| 2 | 32 |
| 2 | 16 |
| 2 | 8 |
| 2 | 4 |
| 2 | 2 |
|  | 1 |
| $\sqrt[3]{\frac{512}{343}}=\frac{\sqrt[3]{8 \times 8 \times 8}}{\sqrt[3]{7 \times 7 \times 7}}$ |  |
| $\sqrt[3]{\frac{-512}{343}}=\frac{-8}{7}$ |  |

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RS Aggarwal Solutions Class 8 Mathematics Cubes and Cube Roots

Ex 4D

Q1
Answer:
(a)

141 is not a perfect cube.
(b)

294 is not a perfect cube
(c) $(\sqrt{ })$

216 is a perfect cube.
$216=(2 \times 2 \times 2) \times(3 \times 3 \times 3)=\left(2^{3}\right) \times\left(3^{3}\right)=6^{3}$
(d)

496 is not a perfect cube.

Q2
Answer:
(a)
$1152=2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3=(2)^{3} \times(2)^{3} \times(2 \times 3 \times 3)$.
Hence, 1152 is not a perfect cube.
(b) ( $\mathfrak{l}$
$1331=11 \times 11 \times 11=(11)^{3}$
Hence, 1331 is a perfect cube.
(c)
$2016=2 \times 2 \times 2 \times 2 \times 2 \times 3 \times 3 \times 7=(2)^{3} \times 2 \times 2 \times 3 \times 3 \times 7$
Hence, 2016 is not a perfect cube.
(d)

739 is not a perfect cube
Q3

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Answer:
(c) 8
$\sqrt[3]{512}=\sqrt[3]{2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2}=\sqrt[3]{(2 \times 2 \times 2) \times(2 \times 2 \times 2) \times(2 \times 2 \times 2)}$ $\sqrt[3]{512}=\sqrt[3]{(2)^{3} \times(2)^{3} \times(2)^{3}}=8$

Hence, the cube root of 512 is 8 .

Q4
Answer:
(c) 20

```
\(\sqrt[3]{125 \times 64}=\sqrt[3]{125} \times \sqrt[3]{64}=\sqrt[3]{5 \times 5 \times 5} \times \sqrt[3]{2 \times 2 \times 2 \times 2 \times 2 \times 2}\)
\(\sqrt[3]{125 \times 64}=\sqrt[3]{(5)^{3}} \times \sqrt[3]{(2)^{3} \times(2)^{3}}=\sqrt[3]{(5)^{3}} \times \sqrt[3]{(4)^{3}}\)
\(\sqrt[3]{125 \times 64}=5 \times 4=20\)
```

Hence, the cube root of $\sqrt[3]{125 \times 64}$ is 20
Q5
Answer:
(b) $\frac{4}{7}$
$\sqrt[3]{\frac{64}{343}}=\frac{\sqrt[3]{64}}{\sqrt[3]{343}}=\frac{\sqrt[3]{4 \times 4 \times 4}}{\sqrt[3]{7 \times 7 \times 7}}=\frac{\sqrt[3]{(4)}}{\sqrt[3]{(7)^{3}}}$
$\sqrt[3]{\frac{64}{343}}=\frac{4}{7}$
$\therefore \sqrt[3]{\frac{64}{343}}=\frac{4}{7}$
Q6
Answer:
(b) $\frac{-8}{9}$
$\sqrt[3]{\frac{-512}{729}}=\frac{\sqrt[3]{-512}}{\sqrt[3]{729}}=\frac{\sqrt[3]{(-8) \times(-8) \times(-8)}}{\sqrt[3]{9 \times 9 \times 9}}=\frac{\sqrt[3]{(-8)^{3}}}{\sqrt[3]{{ }^{(9)^{3}}}}$
$\sqrt[3]{\frac{-512}{729}}=\frac{-8}{9}$
$\therefore \sqrt[3]{\frac{-512}{729}}=\frac{-8}{9}$

Q7
Answer:
(c) 9

| 2 | 648 |
| :--- | :--- |
| 2 | 324 |
| 2 | 162 |
| 3 | 81 |
| 3 | 27 |
| 3 | 9 |
| 3 | 3 |
|  | 1 |

$648=2 \times 2 \times 2 \times 3 \times 3 \times 3 \times 3=(2)^{3} \times(3)^{3} \times 3$
Therefore, to get a perfect cube, we need to multiply 648 by 9 , i.e. $(3 \times 3)$.
Q8

Downloaded from www.studiestoday.com RS Aggarwal Solutions Class 8 Mathematics Answer:
(a) 3

| 2 | 1536 |
| :--- | :--- |
| 2 | 768 |
| 2 | 384 |
| 2 | 192 |
| 2 | 96 |
| 2 | 48 |
| 2 | 24 |
| 2 | 12 |
| 2 | 6 |
| 3 | 1 |
|  |  |

$1536=2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 2 \times 3=(2)^{3} \times(2)^{3} \times(2)^{3} \times 3$ Therefore, to get a perfect cube, we need to divide 1536 by 3 .

Q9

Answer:
(C) $2 \frac{197}{1000}$
$\left(1 \frac{3}{10}\right)^{3}=\left(\frac{13}{10}\right)^{3}=\frac{(13)^{3}}{(10)^{3}}=\frac{(13 \times 13 \times 13)}{(10 \times 10 \times 10)}$
$\left(1 \frac{3}{10}\right)^{3}=\frac{2197}{1000}=2 \frac{197}{1000}$
$\therefore\left(1 \frac{3}{10}\right)^{3}=2 \frac{197}{1000}$

Q10
Answer :
(c) 0.512
$(0.8)^{3}=(0.8) \times(0.8) \times(0.8)=0.512$
$\therefore(0.8)^{3}=0.512$

