Book For
Railway Recruitment Board

Character Puzzles

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Q. 1 Which one will replace the question mark?

\[ \begin{array}{cccc}
52 & 31 & 39 & 63 \\
21 & 21 & 85 & \? \\
\end{array} \]

[A] 92  
[B] 72  
[C] 62  
[D] 99

Answer Option [D]

Explanation:
\[ 21 + 31 = 52 \]
and \[ 39 + 46 = 85 \]
Therefore, \[ 16 + 83 = 99 \].

---

Q. 2 Which one will replace the question mark?

\[ \begin{array}{ccc}
12 & 4 & 15 \\
10 & \? & 23 \\
9 & 20 & 16 \\
\end{array} \]

[A] 11  
[B] 14  
[C] 10  
[D] 12

Answer Option [A]

Explanation:
\[ (15 - 12) + (10 - 9) = 4 \]
\[ (28 - 12) + (16 - 20) = 12 \]
Similarly, \[ (23 -11) + (15- 16) = 11 \].

---

Q. 3 Which one will replace the question mark?

\[ \begin{array}{cccc}
4 & 5 & 6 & 7 \\
11 & 9 & 3 & \? \\
\end{array} \]

[A] 13  
[B] 14  
[C] 12  
[D] 15

Answer Option [D]

Explanation:
Sum of numbers in lower half of the circle = \[ 11 + 9 + 3 + 7 = 30 \]
Sum of numbers in upper half of the circle = \[ ? + 4 + 5 + 6 = ? + 15 \]
Upper half = Lower half
\[ 30 = ? + 15 \]
\[ ? = 30 - 15 \]
\[ ? = 15 \].
Therefore, 15 is the answer.
Q. 4

Which one will replace the question mark?

\[
\begin{align*}
9 & \quad 5 & \quad 1 & \quad 5 \\
5 & \quad 4 & \quad 3 & \quad 6 \\
1 & \quad 2 & \quad 7 & \quad 9
\end{align*}
\]

[A] 262  
[B] 622  
[C] 631  
[D] 824

Answer: Option [B]

**Explanation:**

\[
\begin{align*}
(915 - 364) &= 551 \\
(789 - 543) &= 246 \\
(863 - 241) &= 622
\end{align*}
\]

Q. 5

Which one will replace the question mark?

\[
\begin{array}{ccc}
? & 3 & 5 \\
22 & 13 & 8
\end{array}
\]

[A] 45  
[B] 29  
[C] 39  
[D] 37

Answer: Option [C]

**Explanation:**

\[
\begin{align*}
3 \times 2 - 1 &= 5 \\
5 \times 2 - 2 &= 8 \\
8 \times 2 - 3 &= 13 \\
13 \times 2 - 4 &= 22 \\
22 \times 2 - 5 &= 39
\end{align*}
\]

Q. 6

Which one will replace the question mark?

\[
\begin{align*}
12 & \quad 8 & \quad 16 & \quad 7 & \quad 25 & \quad 21 \\
& \quad 80 & \quad 207 & \quad ?
\end{align*}
\]

[A] 184  
[B] 210  
[C] 241  
[D] 425

Answer: Option [A]

**Explanation:**

\[
\begin{align*}
(12)^2 - (8)^2 &= 80 \\
and \quad (16)^2 - (7)^2 &= 207 \\
Therefore \quad (25)^2 - (21)^2 &= 184.
\end{align*}
\]
Q. 7 Which one will replace the question mark ?

[A] 660
[B] 670
[C] 610
[D] 690

Answer Option [D]

Explanation:

\[(1)^2 + (5)^2 + (4)^2 + (3)^2 = 51 \times 10 = 510\]
and \[(3)^2 + (4)^2 + (6)^2 + (2)^2 = 65 \times 10 = 650\]
Similarly \[(0)^2 + (1)^2 + (2)^2 + (8)^2 = 69 \times 10 = 690\].

Q. 8 Which one will replace the question mark ?

[A] 262
[B] 622
[C] 631
[D] 824

Answer Option [B]

Explanation:

\[915 - 364 = 551\]
and \[789 - 543 = 246\]
Similarly, \[863 - 241 = 622\].

Q. 9 Which one will replace the question mark ?

[A] 18
[B] 90
[C] 108
[D] 28

Answer Option [C]

Explanation:

\[13 + 15 = 28\]
\[36 + 54 = 90\]
Therefore, \[45 + 63 = 108\].
Q. 10 Which one will replace the question mark?

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
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</tr>
<tr>
<td>8</td>
<td>9</td>
<td>7</td>
</tr>
<tr>
<td>10</td>
<td>7</td>
<td>?</td>
</tr>
<tr>
<td>400</td>
<td>378</td>
<td>315</td>
</tr>
</tbody>
</table>

[A] 9  
[B] 5  
[C] 7  
[D] 3

Answer Option [A]

Explanation:
5 x 8 x 10 = 400  
and 6 x 9 x 7 = 378  
Therefore 5 x 7 x ? = 315  

Q. 11 Which one will replace the question mark?

\[
\begin{array}{ccc}
5 & 6 & 8 \\
7 & 4 & 9 \\
\end{array}
\]

[A] 115  
[B] 130  
[C] 135  
[D] 140

Answer Option [B]

Explanation:
\[(5 \times 6 \times 8) + (7 \times 4 \times 9) = 492\]  
and \[(7 \times 5 \times 4) + (6 \times 8 \times 9) = 572\]  
Therefore \[(4 \times 3 \times 5) + (7 \times 2 \times 5) = 130.\]

Q. 12 Which one will replace the question mark?

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
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<td>0</td>
</tr>
<tr>
<td>1</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>3</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>36</td>
<td>?</td>
<td>91</td>
</tr>
</tbody>
</table>

[A] 25  
[B] 59  
[C] 48  
[D] 73

Answer Option [D]
Explanation:
\[(2)^3 + (1)^3 + (3)^3 = 36\]
and \[(0)^3 + (4)^3 + (3)^3 = 91\]
Therefore, \[(4)^3 + (2)^3 + (1)^3 = 73\].

Q. 13 Which one will replace the question mark?

\[
\begin{array}{ccc}
4 & 6 & 14 \\
10 & 18 & 12 \\
? & \text{?} & \text{?}
\end{array}
\]

[A] 8  
[B] 14  
[C] 10  
[D] 6

Answer Option [C]

Explanation:
For first triangle,  
10 - 4 = 6  
18 - 10 = 8  
18 - 4 = 14  
For second triangle,  
14 - 8 = 6  
22 - 14 = 8  
22 - 8 = 14  
For third triangle,  
11 - 5 = 6  
15 - 11 = 4  
15 - 5 = 10.

Q. 14 Which one will replace the question mark?

\[
\begin{array}{ccc}
5 & 4 & 7 \\
\text{?} & \text{?} & \text{?}
\end{array}
\]

[A] 1  
[B] 4  
[C] 3  
[D] 6

Answer Option [D]

Explanation:
\[
\begin{align*}
\frac{(5 + 4 + 7)}{2} &= 8 \\
\frac{(6 + 9 + 5)}{2} &= 10 \\
\frac{(3 + 7 + 2)}{2} &= 6.
\end{align*}
\]
Q. 16  Which one will replace the question mark ?

\[
\begin{array}{ccc}
3 & 39 & 3 \\
6 & 3 & 3 \\
5 & 1 & 4 \\
4 & 3 & 4 \\
\end{array}
\]

[A] 47  
[B] 45  
[C] 37  
[D] 35

Answer  Option [C]

Explanation: 
\[(3 \times 3) + (5 \times 6) = 39\]
and \[(4 \times 4) + (5 \times 7) = 51\]
Therefore, \[(3 \times 4) + (5 \times 5) = 37.\]
Q. 18
Which one will replace the question mark?

\[
\begin{array}{ccc}
6 & 10 & 5 \\
2 & 4 & ? \\
\end{array}
\quad
\begin{array}{ccc}
6 & 24 & 10 \\
8 & 2 & 12 \\
\end{array}
\quad
\begin{array}{ccc}
4 & 14 & 2 \\
10 & 6 & 12 \\
\end{array}
\]

[A] 36
[B] 48
[C] 38
[D] 30

Answer: Option [C]

Explanation:
\[(0 + 2 + 6 + 4) - 2 = 10\]
and \[(6 + 2 + 10 + 8) - 2 = 24\]
Therefore, \[(4 + 14 + 12 + 10) - 2 = 38\].

Q. 19
Which one will replace the question mark?

\[
\begin{array}{ccc}
16 & 28 & 29 \\
13 & 12 & 16 \\
14 & 10 & 15 \\
15 & 30 & ? \\
\end{array}
\]

[A] 60
[B] 30
[C] 20
[D] 45

Answer: Option [B]

Explanation:
\[(16 + 13) = (14 + 15)\] and \[(28 + 12) = (10 + 30)\]
Therefore \[(29 + 16) = (15 + 30)\].

Q. 20
Which one will replace the question mark?

\[
\begin{array}{ccc}
2 & 2 & 1 \\
5 & 4 & 5 \\
5 & 5 & 3 \\
\end{array}
\]

[A] 11
[B] 19
[C] 15
[D] 22
Q. 21 Which one will replace the question mark?

\[ \begin{array}{ccc}
4 & 4 & ? \\
3 & 6 & 2 \\
2 & 5 & 2 \\
\end{array} \]

[A] 2  
[B] 4  
[C] 6  
[D] 8  

Answer Option [C]

Explanation:
\[(4 \times 7) \mod 4 = 7\]
\[(6 \times 2) \mod 3 = 4\]
Therefore, \((6 \times 2) \mod 2 = 6\).

Q. 22 Which one will replace the question mark?

\[ \begin{array}{ccc}
7 & 4 & 5 \\
8 & 7 & 6 \\
3 & 3 & ? \\
29 & 19 & 31 \\
\end{array} \]

[A] 3  
[B] 5  
[C] 4  
[D] 6  

Answer Option [B]

Explanation:
\[(7 \times 3) + 8 = 29\]
\[(4 \times 3) + 7 = 19\]
\[(5 \times ?) + 6 = 31\]
? = 5.
Q. 24 Which one will replace the question mark?

[A] 18
[B] 24
[C] 36
[D] 58

Answer Option [B]

Explanation:
\((7 \times 3) = 21\) and \((9 \times 3) = 27\)
and \((4 \times 9) = 36\) and \((2 \times 9) = 18\)
Therefore \((9 \times 6) = 54\) and \((4 \times 6) = 24\).

Q. 25 Which one will replace the question mark?

[A] 0
[B] 2
[C] 11
[D] 12

Answer Option [C]

Explanation:
\((6 + 5) - (7 + 4) = 0\)
and \((7 + 6) - (8 + 4) = 1\)
Therefore \((11 + 2) - (2 + 0) = 11\).

Q. 26 Which one will replace the question mark?

[A] 60
[B] 46
Answer Option [C]

Explanation:
(30 - 24) x 8 = 48
and (23 - 12) x 8 = 88
Therefore, (92 - 86) x 8 = 48.

Q. 27 Which one will replace the question mark?

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/2</td>
<td>3/2</td>
</tr>
<tr>
<td>2</td>
<td>2/3</td>
<td>3/3</td>
</tr>
<tr>
<td>3</td>
<td>?</td>
<td>19/5</td>
</tr>
</tbody>
</table>

[A] 1/2  
[B] 2/3  
[C] 3/4  
[D] 4/5  

Answer Option [D]

Explanation:
From I row, 1 + (1/2) = 3/2
From II row, 2 + (2/3) = 8/3
From III row, 3 + ? = 19/5
? = (19/5) - 3
? = (4/5).

Q. 28 Which one will replace the question mark?

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>A₂</td>
<td>C₄</td>
<td>E₆</td>
</tr>
<tr>
<td>G₃</td>
<td>I₅</td>
<td>?</td>
</tr>
<tr>
<td>M₅</td>
<td>O₉</td>
<td>Q₁₄</td>
</tr>
</tbody>
</table>

[A] L₁₀  
[B] K₁₅  
[C] I₁₅  
[D] K₈  

Answer Option [D]

Explanation:
A₂ →+²→ C₄ →+²→ E₆
M₅ →+²→ O₉ →+²→ Q₁₄
G₃ →+²→ I₅ →+²→ K₉
How the number is obtained?
2 + 4 = 6
5 + 9 = 14
Similarly,
3 + 5 = 8
Therefore, the answer is K₈.

Q. 29
Which one will replace the question mark?

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>5</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>4</td>
<td>?</td>
<td></td>
</tr>
</tbody>
</table>

[A] 6
[B] 7
[C] 8
[D] 9

Answer: Option [A]

Explanation:
(5 + 3)/2 = 4
and (6 + 8)/2 = 7
Therefore (8 + 4)/2 = 6.

Q. 30
Which one will replace the question mark?

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>15</td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>38</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>7</td>
<td>5</td>
</tr>
</tbody>
</table>

[A] 15
[B] 19
[C] 20
[D] 18

Answer: Option [D]

Explanation:
(3 x 4) + 3 = 15
and (7 x 5) + 3 = 38
Therefore (3 x 5) + 3 = 18.

Q. 31
Which one will replace the question mark?

[A] 64
[B] 144
[C] 169
[D] 25

Answer: Option [A]
Explanation:
The numbers are squared in ascending order
In first circle,

\( (3)^2 = 9 \)

\( (4)^2 = 16 \)

\( (5)^2 = 25 \)

\( (6)^2 = 36. \)

In second circle,

\( (4)^2 = 16 \)

\( (5)^2 = 25 \)

\( (6)^2 = 36 \)

\( (7)^2 = 49. \)

In third circle,

\( (6)^2 = 36 \)

\( (7)^2 = 49 \)

\( (8)^2 = 64 \)

\( (9)^2 = 81. \)

Q. 32 Which one will replace the question mark ?

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>4</td>
<td>9</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>1</td>
<td>?</td>
</tr>
</tbody>
</table>

[A] 9  
[B] 6  
[C] 15  
[D] 14  

Answer Option [B]  
Explanation:

\((4 + 9 + 2) = (3 + 5 + 7) = (8 + 1 + 6)\)

Total in each case = 15.

Q. 33 Which one will replace the question mark ?

\begin{align*}
12 & 18 & 30 & 16 & 24 & 40 & 45 & 18 & 27 \\
6 & & 8 & & & & ? & & \\
\end{align*}

[A] 18  
[B] 12  
[C] 9  
[D] 6  

Answer Option [C]  
Explanation:

\((12 + 18 + 30)/10 = 6\)

\((16 + 24 + 40)/10 = 8\)

Similarly, \((45 + 18 + 27)/10 = 9.\)
Q. 35 Which one will replace the question mark?

\[
\begin{array}{cccc}
6 & 32 & ? & 44 & 7 \\
6 &
\end{array}
\]

[A] 33
[B] 38
[C] 32
[D] 37

Answer Option [D]

Explanation:
\[
(5 \times 6) + 2 = 32 \\
(7 \times 6) + 2 = 44 \\
(7 \times 5) + 2 = 37.
\]

Q. 36 Which one will replace the question mark?

\[
\begin{array}{cccc}
4 & 9 & 16 & ? \\
5 & 12 & 20 &
\end{array}
\]

[A] 60
[B] 50
[C] 25
[D] 21

Answer Option [C]

Explanation:
\[
\sqrt{4 \times 9} = 6 \\
\text{and} \quad \sqrt{9 \times 16} = 12 \\
\text{Therefore} \quad \sqrt{16 \times ?} = 20
\]

Q. 36 Which one will replace the question mark?

\[
\begin{array}{cccc}
2 & 4 & 9 & 1 \quad 5 \\
20 & 50 & ? &
\end{array}
\]

[A] 75
[B] 26
[C] 25
[D] 20

Answer Option [B]

Explanation:
\[
(2)^2 + (4)^2 = 20
\]
and \((3)^2 + (9)^2 = 90\)
Therefore \((1)^2 + (5)^2 = 26\).

Q. 37 Which one will replace the question mark?

<table>
<thead>
<tr>
<th></th>
<th>?</th>
<th>5</th>
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</thead>
<tbody>
<tr>
<td>3</td>
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<td>7</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>60</td>
<td>96</td>
<td>140</td>
</tr>
</tbody>
</table>

[A] 4  
[B] 6  
[C] 9  
[D] 8

Answer Option [B]

Explanation:
\(3 \times 5 \times 4 = 60\)
and \(5 \times 7 \times 4 = 140\)
Therefore, \(4 \times 4 \times ? = 96\)
\(? = (96/16) = 6\).

Q. 38 Which one will replace the question mark?

\[
\begin{array}{cccc}
15 & 12 & 44 & 64 \\
3 & 8 & ? & 53 \\
\end{array}
\]

[A] 30  
[B] 13  
[C] 70  
[D] 118

Answer Option [B]

Explanation:
\((15 + 12)/9 = 3\)
and \((44 + 28)/9 = 8\)
Therefore, \((64 + 53)/9 = 13\).

Q. 39 Which one will replace the question mark?

\[
\begin{array}{cccc}
4 & 1 & 5 & 8 \\
? & 25 & 2 & 1 \\
\end{array}
\]

[A] 1  
[B] 2  
[C] 3  
[D] 4
**Q. 40** Which one will replace the question mark?

<table>
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<tr>
<th>Option</th>
<th>Value</th>
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<td>A</td>
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<tr>
<td>B</td>
<td>32</td>
</tr>
<tr>
<td>C</td>
<td>4</td>
</tr>
<tr>
<td>D</td>
<td>16</td>
</tr>
</tbody>
</table>

**Answer** Option [C]

**Explanation:**

\[(16)^2 = 256\]

Therefore, \((2)^2 = 4\).

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**Q. 41** Which one will replace the question mark?

<table>
<thead>
<tr>
<th>Option</th>
<th>Value</th>
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<tbody>
<tr>
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<tr>
<td>B</td>
<td>114</td>
</tr>
<tr>
<td>C</td>
<td>108</td>
</tr>
<tr>
<td>D</td>
<td>None of these</td>
</tr>
</tbody>
</table>

**Answer** Option [C]

**Explanation:**

\[(4 + 8) \times 9 = 108\]
\[(5 + 4) \times 12 = 108\].

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**Q. 42** Which one will replace the question mark?

<table>
<thead>
<tr>
<th>Option</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>18</td>
</tr>
<tr>
<td>B</td>
<td>20</td>
</tr>
<tr>
<td>C</td>
<td>21</td>
</tr>
<tr>
<td>D</td>
<td>19</td>
</tr>
</tbody>
</table>

**Answer** Option [B]

**Explanation:**

\[1 + 2 + 3 + 4 = 10\]
and $1 + 3 + 5 + 8 = 17$
Similarly, $1 + 4 + 6 + 9 = 20$.

Q. 43 Which one will replace the question mark?

<table>
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<td>7</td>
</tr>
<tr>
<td>1</td>
<td>8</td>
<td>3</td>
</tr>
<tr>
<td>21</td>
<td>98</td>
<td>?</td>
</tr>
</tbody>
</table>

[A] 94
[B] 76
[C] 16
[D] 73

Answer Option [A]

Explanation:
$(4)^2 + (2)^2 + (1)^2 = 21$
and $(5)^2 + (3)^2 + (8)^2 = 98$
Therefore $(6)^2 + (7)^2 + (3)^2 = 94$.

Q. 44 Which one will replace the question mark?

<table>
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<th>3</th>
<th>6</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>31</td>
<td>81</td>
</tr>
</tbody>
</table>

[A] 45
[B] 41
[C] 32
[D] 40

Answer Option [A]

Explanation:
$(15 \times 2 - 3) = 27$,
$(31 \times 2 - 6) = 56$
and $(45 \times 2 - 9) = 81$

Q. 45 Which one will replace the question mark?

<table>
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<tr>
<th>10</th>
<th>11</th>
<th>15</th>
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</thead>
<tbody>
<tr>
<td>9</td>
<td>12</td>
<td>7</td>
</tr>
</tbody>
</table>

[A] 6
[B] 7
[C] 8
[D] 9
Q. 46
Which one will replace the question mark?

<p>| | | | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>2</td>
<td>4</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

[A] 20  
[B] 26  
[C] 25  
[D] 75

Answer Option [B]

Explanation:
\[(2)^2 + (4)^2 = 20\]  
\[(3)^2 + (9)^2 = 90\]  
Therefore, \[(1)^2 + (5)^2 = 26\].

Q. 47
Which one will replace the question mark?

<p>| | | | |</p>
<table>
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<tr>
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<td>P</td>
<td>S</td>
<td>V</td>
<td>Y</td>
</tr>
<tr>
<td>11</td>
<td>8</td>
<td>5</td>
<td>?</td>
</tr>
</tbody>
</table>

[A] 3  
[B] 2  
[C] 7  
[D] 6

Answer Option [B]

Explanation:
Putting the position of the letters in reverse order  
P = 11, S = 8, V = 5 and Y = 2.

Q. 48
Which one will replace the question mark?

<table>
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<tr>
<th></th>
<th></th>
<th>1</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
<td>27</td>
</tr>
<tr>
<td>343</td>
<td>7</td>
<td>5</td>
</tr>
</tbody>
</table>

[A] 25  
[B] 625  
[C] 125

Answer Option [B]

Explanation:
\[1 + 3 + 27 = 31\]  
\[343 + 7 + 5 = 355\]  
Therefore, \[1 + 3 + 27 = 31\]  
\[343 + 7 + 5 = 355\].
Answer: Option [C]

Explanation:
All numbers are cubed,
(7)^3 = 343
(1)^3 = 1
(3)^3 = 27
Similarly, (5)^3 = 125.

Q. 49 Which one will replace the question mark?

5 19 3
4

7 ? 5
6

29 4
5

[A] 25
[B] 37
[C] 41
[D] 47

Answer: Option [C]

Explanation:
(5 x 3) + 4 = 19
and (6 x 4) + 5 = 29
Therefore, (7 x 5) + 6 = 41

Q. 50 Which one will replace the question mark?

93 27 79 67 16

63 57 42

3 4

[A] 5
[B] 6
[C] 8
[D] 9

Answer: Option [D]

Explanation:
93 - (27 + 3) = 63
79 - (38 + 4) = 37
Therefore, 67 - (16 + X) = 42
X = 9
Q. 52 Which one will replace the question mark?

\[
\begin{array}{ccc}
3 & 4 & 8 \\
2 & 5 & 4 \\
4 & 5 & 9 \\
\end{array}
\]

[A] 8  
[B] 9  
[C] 10  
[D] 11  

Answer  Option [D]  
Explanation:  
\[(3 \times 4 - 8) = 4, \quad (2 \times 5 - 4) = 6, \quad (4 \times 5 - 9) = 11.\]
Q. 54 Which one will replace the question mark?

\[
\begin{array}{ccc}
4 & 6 & 3 \\
5 & 10 & 5 \\
4 & 8 & 2 \\
\end{array}
\]

[A] 8  
[B] 12  
[C] 16  
[D] 20

Answer  Option [C]

Explanation:
\[
(4 \times 6) \mod 3 = 8 \\
(6 \times 10) \mod 5 = 12 \\
(4 \times 8) \mod 2 = 16.
\]