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Number series Questions for Bank Exams - Number series Quiz at Smartkeeda.

Number series Quiz 1
Directions: Find the wrong term in the given series:

1. 32, 75, 144, 244, 567, 800, 1089
A. 32
B. 75
C. 244
D. 800
E. 1089
2. $\frac{15}{8}, \frac{35}{8}, \frac{105}{16}, \frac{693}{80}, \frac{429}{40}, \frac{715}{56}, \frac{1615}{96}$
A. $\frac{15}{8}$
B. $\frac{105}{16}$
C. $\frac{693}{80}$
D. $\frac{715}{56}$
E. $\frac{1615}{96}$
3. $12,13,25,38,63,104,164$
A. 63
B. 25
C. 38
D. 104
E. 164
4. 287496, 274625, 262144, 246078, 238328, 226981, 216000
A. 287496
B. 274625
C. 262144
D. 246078
E. 216000
5. 42, 63, 94.5, 141.75, 212.92, 318.9375
A. 94.5
B. 63
C. 42
D. 212.92
E. 318.9375
6. 4, 2, 3.5, 7.5, 26.25, 118.125
A. 118.125
B. 26.25
C. 3.5
D. 2
E. 7.5
7. 7, 9, 16, 25, 41, 68, 107, 173
A. 107
B. 16
C. 41
D. 68
E. 25
8. 16, 19, 21, 30, 46, 71, 107
A. 19
B. 21
C. 30
D. 46
E. 71
9. 16, 4, 2, 1.5, 1.75, 1.875
A. 1.875
B. 1.75
C. 1.5
D. 2
E. 4
10.2, 11, 38, 197, 1172, 8227, 65806
A. 11
B. 38
C. 197
D. 1172
E. 8227

## Correct Answers:

| $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| C | E | D | D | D | C | D | A | B | D |

## Explanations:

1. 

## Series pattern Given series

| $1+2^{2}+3^{3}=32$ | 32 | $\checkmark$ |
| :---: | :---: | :---: |
| $2+3^{2}+4^{3}=75$ | 75 | $\checkmark$ |
| $3+4^{2}+5^{3}=144$ | 144 | $\checkmark$ |
| $4+5^{2}+6^{3}=245$ | 244 | $\times$ |
| $6+7^{2}+8^{3}=567$ | 567 | $\checkmark$ |
| $7+8^{2}+9^{3}=800$ | 800 | $\checkmark$ |
| $8+9^{2}+10^{3}=1089$ | 1089 | $\checkmark$ |

Hence, there should be 245 in place of 244.
Hence, option C is correct.
2.

Series pattern
$\frac{1 \times 3 \times 5}{2 \times 4}=\frac{15}{8}$
$\frac{3 \times 5 \times 7}{4 \times 6}=\frac{35}{8}$
$\frac{5 \times 7 \times 9}{6 \times 8}=\frac{105}{16}$
$\frac{7 \times 9 \times 11}{8 \times 10}=\frac{693}{80}$
$\frac{9 \times 11 \times 13}{10 \times 12}=\frac{429}{40}$
$\frac{11 \times 13 \times 15}{12 \times 14}=\frac{715}{56}$
$\frac{13 \times 15 \times 17}{14 \times 16}=\frac{3315}{224}$

Given series
$\frac{15}{8}$
$\frac{35}{8}$
$\frac{105}{16}$
$\frac{693}{80}$
$\frac{429}{40}$
$\frac{715}{56}$
$\frac{1615}{96} \times$

Hence, there should be $\frac{3315}{224}$ in place of $\frac{1615}{96}$,
Hence, option E is correct.
3.

| Series Pattern | Given Series |  |
| :---: | :---: | :---: |
| 12 | 12 | $\checkmark$ |
| 13 | 13 | $\checkmark$ |
| $12+13=25$ | 25 | $\checkmark$ |
| $13+25=38$ | 38 | $\checkmark$ |
| $25+38=63$ | 63 | $\checkmark$ |
| $38+63=101$ | 104 | $\times$ |
| $63+101=164$ | 164 | $\checkmark$ |

So, 104 is wrong term and must be replaced by 101 .

Hence, option D is correct.
4.

Series Pattern
$(66)^{3}=287496$
$(65)^{3}=274625$
$(64)^{3}=262144$
$(63)^{3}=250047$
$(62)^{3}=238328$
$(61)^{3}=238328$
$(60)^{3}=216000$

Given Series
287496
274625
262144
$246078 \times$
238328
238328
216000

Hence, there should be 250047 in place of 246078.

Hence, option D is correct.
5.

| Series Pattern | Given Series |  |
| :---: | :---: | :---: |
| 42 | 42 | $\checkmark$ |
| $42 \times 1.5=63$ | 63 | $\checkmark$ |
| $63 \times 1.5=94.5$ | 94.5 | $\checkmark$ |
| $94.5 \times 1.5=141.75$ | 141.75 | $\checkmark$ |
| $141.75 \times 1.5=212.625$ | 212.92 | $\times$ |
| $212.625 \times 1.5=318.9375$ | 318.9375 | $\Omega$ |

Hence, there should be 212.625 in place of 212.92.

Hence, option D is correct.
6.

| Series Pattern | Given Series |  |
| :---: | :---: | :---: |
| 4 | 4 | $\checkmark$ |
| $4 \times 0.5=2$ | 2 | $\checkmark$ |
| $2 \times 1.5=3$ | 3.5 | $\times$ |
| $3 \times 2.5=25$ | 7.5 | $\checkmark$ |
| $7.5 \times 3.5=26.25$ | 26.25 | $\checkmark$ |
| $26.25 \times 4.5=118.25$ | 118.25 | $\checkmark$ |

Hence, there should be 3 in place of 3.5.

Hence, option C is correct.
7.

Series Pattern Given Series

| 7 | 7 | $\checkmark$ |
| :---: | :---: | :---: |
| 9 | 9 | $\checkmark$ |
| $7+9=16$ | 16 | $\checkmark$ |
| $16+9=25$ | 25 | $\checkmark$ |
| $25+16=41$ | 41 | $\checkmark$ |
| $41+25=66$ | 68 | $\times$ |
| $66+41=107$ | 107 | $\checkmark$ |
| $107+66=173$ | 173 | $\checkmark$ |

Hence, there should be 66 in place of 68 .
Hence, option D is correct.
8.

Series Pattern Given Series

| 16 | 16 | $\checkmark$ |
| :---: | :---: | :---: |
| $16+1^{2}=17$ | 19 | $\times$ |
| $17+2^{2}=21$ | 21 | $\checkmark$ |
| $21+3^{2}=30$ | 30 | $\checkmark$ |
| $30+4^{2}=46$ | 46 | $\checkmark$ |
| $46+5^{2}=71$ | 71 | $\checkmark$ |
| $71+6^{2}=107$ | 107 | $\checkmark$ |

Hence, there should be 17 in place of 19.

Hence, option A is correct.
9.

## Series Pattern Given Series

| 16 | 16 | $\checkmark$ |
| :---: | :---: | :---: |
| $16 \times 0.25=4$ | 4 | $\checkmark$ |
| $4 \times 0.5=2$ | 2 | $\checkmark$ |
| $2 \times .75=25$ | 1.5 | $\checkmark$ |
| $1.5 \times 1=1$ | 1.75 | $\times$ |
| $1.5 \times 1.25=1.875$ | 1.875 | $\checkmark$ |

Hence, there should be 1.5 in place of 1.75 .
Hence, option B is correct.
10.

| Series Pattern | Given Series |  |
| :---: | :---: | :---: |
| 2 | 2 | $\checkmark$ |
| $2 \times 3+5=11$ | 11 | $\checkmark$ |
| $11 \times 4-6=38$ | 38 | $\checkmark$ |
| $38 \times 5+7=197$ | 197 | $\checkmark$ |
| $197 \times 6-8=1174$ | 1172 | $\times$ |
| $1174 \times 7+9$ | 8227 | $\checkmark$ |
| $8227 \times 8-10$ | 65806 | $\checkmark$ |

Hence, there should be 1174 in place of 1172.

Hence, option D is correct.


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