

BODMAS
 Bracket \div \times $+$ $-$
 $\frac{12}{\times 3}$
 $\frac{136}{15}$
 $\frac{51}{}$

$9 + 8 - 5 = 2 \times 6$
 $15 + 3 \times 12 = 41 + 10$
 $3 \times 9 - 14 = 24 - 11$
 $8 \times 6 - 13 + 3 = 7 \times 6 - 4$
 $3 \times 9 - 14 = 24 - 11$
 $24 + 4 + 5 = 66 + (-33)$

find missing no in given series

4, 18, 48, 100, 180, 294

here the sequence followed is
 $2^3 - 2^2 = 4$ $5^3 - 5^2 = 100$ $7^3 - 7^2 = 294$
 $3^3 - 3^2 = 18$ $6^3 - 6^2 = 180$ hence ans is 48
 $4^3 - 4^2 = 48$

15, 31, 63, 127, 255

Sol: The sequence followed here is $\times 2 + 1, \times 2 + 1, \times 2 + 1$
 $15 \times 2 + 1 = 31$ $63 \times 2 + 1 = 127$ hence, the answer is 255.
 $31 \times 2 + 1 = 63$ $127 \times 2 + 1 = 255$

1, 8, 27, 64, 125, 216

The sequence followed here is $1^3, 2^3, 3^3, 4^3, 5^3, 6^3$
 $1^3 = 1$ $2^3 = 8$ $3^3 = 27$ $4^3 = 64$ $5^3 = 125$ $6^3 = 216$ Hence, the answer is 216.

132, 156, 182, 210, 240

The sequence followed here is $+24, +26, +28, +30$.
 So $132 + 24 = 156$ $182 + 28 = 210$ Hence the ans is 182
 $156 + 26 = 182$ $210 + 30 = 240$

8, 24, 12, 36, 18, 54, 27

here the sequence followed is $\times 3 \div 2, \times 3 \div 2, \times 3 \div 2, \times 3 \div 2$.
 So $8 \times 3 = 24 \div 2 = 12$ hence, the answer is 27
 $12 \times 3 = 36 \div 2 = 18$
 $18 \times 3 = 54 \div 2 = 27$

4, 16, 36, 64, 100, 144

here the sequence is
 $2^2 = 4$ $6^2 = 36$ $10^2 = 100$
 $4^2 = 16$ $8^2 = 64$ $12^2 = 144$ hence ans is 100

30, 29, 27, 24, 20, 15

here the sequence followed is $-1, -2, -3, -4, -5$
 So $30 - 1 = 29$ $29 - 2 = 27$ $27 - 3 = 24$ $24 - 4 = 20$ $20 - 5 = 15$
 So hence the ans is 24.

7, 15, 25, 37, 51

here the pattern followed is +6, +8, +10, +12, +14

1+6=7
7+8=15
15+10=25
25+12=37
37+14=51

0, 2, 6, 12, 20, 30, 42 hence, answer is 37

Solution:

here, the answer is 42

here the pattern is +2, +4, +6, +8, +10 and +12.

48, 24, 72, 36, 108, 144.

The pattern followed here is

48+24=72
72+36=108
108+36=144

hence answer is 144

1, 8, 4, 27, 9, 64.

Solution:

here the sequence followed is

$1^2, 2^3, 2^2, 3^3, 3^2, 4^3, \dots$

so our ans will be $4^3 = 4 \times 4 \times 4 = 64$

8, 9, 64, 8, 12

Question not correct

$3^{12}, 6^{12}, 8^{12}, 16^{12}, 18^{12}, \underline{36}$

Solution:

here the sequence followed is $\times 2, +2, \times 2, +2$

$3 \times 2 = 6 + 2 = 8 \times 2 = 16 + 2 = 18 \times 2 = 36$

hence, 36 is the answer

6, 11, 21, 36, 56, 81

Solution:

here the sequence followed is $+5, +10, +15, +20, +25, +30, \dots$

So $6+5=11+10=21+15=36+20=56+25=81$

So here, the ans is 81.

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