

Name : _____

Special Series

T1S1

Determine the number of terms(n) in each series.

1) $1^3 + 3^3 + 5^3 + \dots$ upto n terms = 1225

2) $1 + 2 + 3 + \dots$ upto n terms = 465

3) $2 + 4 + 6 + \dots$ upto

pto n terms = 1369

5) $1 + 3 + 5 + \dots$ upto

pto n terms = -53361

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7) $2^3 + 4^3 + 6^3 + \dots$ upto n terms = 48672

8) $8 + 16 + 24 + \dots$ upto n terms = 4224

Name : _____

Answer key

Special Series

T1S1

Determine the number of terms(n) in each series.

1) $1^3 + 3^3 + 5^3 + \dots$ upto n terms = 1225

2) $1 + 2 + 3 + \dots$ upto n terms = 465

$n = 5$

$n = 30$

3) $2 + 4 + 6 + \dots$ upto

pto n terms = 1369

$n = 41$

5) $1 + 3 + 5 + \dots$ upto

pto n terms = -53361

$n = 17$

7) $2^3 + 4^3 + 6^3 + \dots$ upto n terms = 48672

8) $8 + 16 + 24 + \dots$ upto n terms = 4224

$n = 12$

$n = 32$

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