Name : _____

# Evaluate the Arithmetic Series

T1S5

Evaluate each arithmetic series.

1) $\frac{1}{8} + \frac{1}{3} + \frac{13}{24} + \ldots$ upto 35 terms

2) $31 + 41 + 51 + \ldots$ upto 24 terms

3) $10.3 + 15.5 + 20.7 +$ ... upto 8 terms

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5) $27 + 23 + 19 + \ldots$ up ... upto 18 terms

7) $-46 - 57 - 68 - \ldots$ upto 22 terms

8) $8\sqrt{6} + 6\sqrt{6} + 4\sqrt{6} + \ldots$ upto 19 terms

Name : _____ **Answer key**

# Evaluate the Arithmetic Series

T1S5

Evaluate each arithmetic series.

1) $\frac{1}{8} + \frac{1}{3} + \frac{13}{24} + \ldots$ upto 35 terms

$\frac{385}{3}$ or $128\frac{1}{3}$

2) $31 + 41 + 51 + \ldots$ upto 24 terms

3504

3) $10.3 + 15.5 + 20.7 \ldots$ upto 8 terms

1194

$-11\frac{1}{57}$

5) $27 + 23 + 19 + \ldots$ up... upto 18 terms

−2040

.9

7) $-46 - 57 - 68 - \ldots$ upto 22 terms

−3553

8) $8\sqrt{6} + 6\sqrt{6} + 4\sqrt{6} + \ldots$ upto 19 terms

$-190\sqrt{6}$

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