Name : _____

Arithmetic Series

Mixed: S1

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

1) $4 + 17 + 30 + \ldots$ upto n terms $= 5775$

2) $\sum_{k=1}^{n} (3k + 5.2) = 1024.8$

3) $a_1 = -2\sqrt{6}$, $a_n = 17$. upto n terms $= 462$

5) $\sum_{r=1}^{n} \left(2 + \frac{1}{5}(r + 1)\right)$ 05, $S_n = -3094$

7) $-90 - 85 - 80 - \ldots$ upto n terms $= 525$

8) $\sum_{p=1}^{n} (11(p - 8) + 46) = 1659$

Name : _____ **Answer key**

Arithmetic Series

Mixed: S1

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

1) $4 + 17 + 30 + \ldots$ upto n terms $= 5775$

n = 30

2) $\sum_{k=1}^{n} (3k + 5.2) = 1024.8$

n = 24

3) $a_1 = -2\sqrt{6}$, $a_n = 17$. upto n terms $= 462$

n = 1

4) **36**

5) $\sum_{r=1}^{n} \left(2 + \frac{1}{5}(r + 1)\right)$ 05, $S_n = -3094$

n = 7

6) **28**

7) $-90 - 85 - 80 - \ldots$ upto n terms $= 525$

n = 42

8) $\sum_{p=1}^{n} (11(p - 8) + 46) = 1659$

n = 21