



Math on the Fly!

NAME: _____

DATE: _____

Arithmetic Series

Find the sum of the first 5 terms of each series.

1. $16 + 25 + 34 + \dots$

2. $45 + 37 + 29 + \dots$

3. $11 + 8 + 5 + \dots$

4. $(-15) + (-9) + (-3) + \dots$

5. $\frac{1}{2} + \frac{2}{3} + \frac{5}{6} + \dots$

6. $\pi + (\pi + 1) + (\pi + 2) + \dots$

Find the sum of the first 25 terms of each arithmetic series.

7. $3 + 5 + 7 + \dots$

8. $100 + 97 + 94 + \dots$

9. $(-10) + (-9) + (-8) + \dots$

10. $50 + 45 + 40 + \dots$

11. $9 + 3 + (-3) + \dots$

12. $4 + 11 + 18 + \dots$

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SOLUTIONS

1. $16 + 25 + 34 + 43 + 52 = 170$

2. $45 + 37 + 29 + 21 + 13 = 145$

3. $11 + 8 + 5 + 2 + -1 = 25$

4. $(-15) + (-9) + (-3) + 3 + 9 = -15$

5. $\frac{1}{2} + \frac{2}{3} + \frac{5}{6} + 1 + \frac{7}{6} = \frac{25}{6}$

6. $\pi + (\pi + 1) + (\pi + 2) + (\pi + 3) + (\pi + 4) = 5\pi + 10$

7. $\frac{25(3 + 51)}{2} = 675$

8. $\frac{25(100 + 28)}{2} = 1600$

9. $\frac{25(-10 + 14)}{2} = 50$

10. $\frac{25(50 + -70)}{2} = -250$

11. $\frac{25(9 + -135)}{2} = -1575$

12. $\frac{25(4 + 172)}{2} = 2200$