



Math worksheet on 'Sums - Series of Integers M to N - Summation Form to Addition (Level 1)'. Part of a broader unit on 'Patterns and Sums - Advanced'

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**1** What addition does this summation form represent?

$$\sum_{n=10}^{15} n$$

<b>a</b>	10 + 11 + ... + 13 + 14
<b>b</b>	10 + 11 + ... + 14 + 15
<b>c</b>	11 + 12 + ... + 14 + 15
<b>d</b>	10 + 11 + ... + 15 + 16
<b>e</b>	9 + 10 + ... + 14 + 15

**2** What addition does this summation form represent?

$$\sum_{n=16}^{24} n$$

<b>a</b>	15 + 16 + ... + 23 + 24
<b>b</b>	16 + 17 + ... + 22 + 23
<b>c</b>	17 + 18 + ... + 23 + 24
<b>d</b>	16 + 17 + ... + 24 + 25
<b>e</b>	16 + 17 + ... + 23 + 24

**3** What addition does this summation form represent?

$$\sum_{n=15}^{24} n$$

<b>a</b>	14 + 15 + ... + 23 + 24
<b>b</b>	15 + 16 + ... + 22 + 23
<b>c</b>	15 + 16 + ... + 23 + 24
<b>d</b>	16 + 17 + ... + 23 + 24
<b>e</b>	15 + 16 + ... + 24 + 25

**4** What addition does this summation form represent?

$$\sum_{n=5}^{13} n$$

<b>a</b>	5 + 6 + ... + 13 + 14
<b>b</b>	4 + 5 + ... + 12 + 13
<b>c</b>	6 + 7 + ... + 12 + 13
<b>d</b>	5 + 6 + ... + 11 + 12
<b>e</b>	5 + 6 + ... + 12 + 13

**5** What addition does this summation form represent?

$$\sum_{n=18}^{23} n$$

<b>a</b>	17 + 18 + ... + 22 + 23
<b>b</b>	18 + 19 + ... + 22 + 23
<b>c</b>	19 + 20 + ... + 22 + 23
<b>d</b>	18 + 19 + ... + 21 + 22
<b>e</b>	18 + 19 + ... + 23 + 24

**6** What addition does this summation form represent?

$$\sum_{n=6}^{15} n$$

<b>a</b>	5 + 6 + ... + 14 + 15
<b>b</b>	6 + 7 + ... + 13 + 14
<b>c</b>	7 + 8 + ... + 14 + 15
<b>d</b>	6 + 7 + ... + 14 + 15
<b>e</b>	6 + 7 + ... + 15 + 16

**7** What addition does this summation form represent?

$$\sum_{n=9}^{14} n$$

<b>a</b>	9 + 10 + ... + 13 + 14
<b>b</b>	9 + 10 + ... + 12 + 13
<b>c</b>	10 + 11 + ... + 13 + 14
<b>d</b>	9 + 10 + ... + 14 + 15
<b>e</b>	8 + 9 + ... + 13 + 14