



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

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1 What equation in summation form would describe what this equation calculates?

$$\frac{10(10 + 1)}{2}$$

a $\sum_{n=1}^{10} n + 1$	b $\sum_{n=1}^{10} n$	c $\sum_{n=1}^9 n$
d $\sum_{n=2}^{10} n$		

2 What equation in summation form would describe what this equation calculates?

$$\frac{18(18 + 1)}{2} - \frac{(11 - 1)11}{2}$$

a $\sum_{n=11}^{17} n$	b $\sum_{n=11}^{18} n$	c $\sum_{n=11}^{19} n$	d $\sum_{n=2}^{18} n$	e $\sum_{n=11}^{18} \frac{n}{2}$
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3 What equation in summation form would describe what this equation calculates?

$$\frac{17(17 + 1)}{2} - \frac{(8 - 1)8}{2}$$

a $\sum_{n=8}^{18} n$	b $\sum_{n=8}^{16} n$	c $\sum_{n=9}^{17} n$	d $\sum_{n=8}^{17} n$
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4 What equation in summation form would describe what this equation calculates?

$$\frac{21(21 + 1)}{2} - \frac{(12 - 1)12}{2}$$

a $\sum_{n=13}^{21} n$	b $\sum_{n=2}^{21} n$	c $\sum_{n=12}^{21} n$	d $\sum_{n=12}^{22} n$
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5 What equation in summation form would describe what this equation calculates?

$$\frac{8(8 + 1)}{2} - \frac{(2 - 1)2}{2}$$

a $\sum_{n=2}^8 n$	b $\sum_{n=2}^7 n$	c $\sum_{n=3}^8 n$	d $\sum_{n=2}^8 n + 1$
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6 What equation in summation form would describe what this equation calculates?

$$\frac{19(19 + 1)}{2} - \frac{(9 - 1)9}{2}$$

a $\sum_{n=10}^{19} n$	b $\sum_{n=9}^{20} n$	c $\sum_{n=9}^{19} \frac{n}{2}$	d $\sum_{n=8}^{19} n$	e $\sum_{n=9}^{19} n$
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7 What equation in summation form would describe what this equation calculates?

$$\frac{11(11 + 1)}{2} - \frac{(4 - 1)4}{2}$$

a $\sum_{n=4}^{12} n$	b $\sum_{n=4}^{11} n$	c $\sum_{n=2}^{11} n$	d $\sum_{n=5}^{11} n$
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