



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

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**2**

What addition does this equation give you a quicker way to calculate?

$$\frac{20(20 + 1)}{2} - \frac{(10 - 1)10}{2}$$

<b>a</b> 10 + 11 + ... + 18 + 19	<b>b</b> 9 + 10 + ... + 19 + 20
<b>c</b> 10 + 11 + ... + 20 + 21	<b>d</b> 11 + 12 + ... + 19 + 20
<b>e</b> 10 + 11 + ... + 19 + 20	

**1**

What addition does this equation give you a quicker way to calculate?

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

<b>a</b> 10 + 11 + ... + 18 + 19	<b>b</b> 9 + 10 + ... + 18 + 19
<b>c</b> 9 + 10 + ... + 17 + 18	<b>d</b> 8 + 9 + ... + 18 + 19
<b>e</b> 9 + 10 + ... + 19 + 20	

**3**

What addition does this equation give you a quicker way to calculate?

$$\frac{18(18 + 1)}{2} - \frac{(8 - 1)8}{2}$$

<b>a</b> 8 + 9 + ... + 18 + 19	<b>b</b> 8 + 9 + ... + 17 + 18
<b>c</b> 9 + 10 + ... + 17 + 18	<b>d</b> 7 + 8 + ... + 17 + 18
<b>e</b> 8 + 9 + ... + 16 + 17	

**4**

What addition does this equation give you a quicker way to calculate?

$$\frac{24(24 + 1)}{2} - \frac{(15 - 1)15}{2}$$

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

**5**

What addition does this equation give you a quicker way to calculate?

$$\frac{20(20 + 1)}{2} - \frac{(12 - 1)12}{2}$$

<b>a</b> 12 + 13 + ... + 18 + 19	<b>b</b> 12 + 13 + ... + 19 + 20
<b>c</b> 12 + 13 + ... + 20 + 21	<b>d</b> 11 + 12 + ... + 19 + 20
<b>e</b> 13 + 14 + ... + 19 + 20	

**6**

What addition does this equation give you a quicker way to calculate?

$$\frac{14(14 + 1)}{2} - \frac{(8 - 1)8}{2}$$

<b>a</b> 7 + 8 + ... + 13 + 14	<b>b</b> 8 + 9 + ... + 14 + 15
<b>c</b> 8 + 9 + ... + 12 + 13	<b>d</b> 9 + 10 + ... + 13 + 14
<b>e</b> 8 + 9 + ... + 13 + 14	

**7**

What addition does this equation give you a quicker way to calculate?

$$\frac{11(11 + 1)}{2} - \frac{(6 - 1)6}{2}$$

<b>a</b> 5 + 6 + ... + 10 + 11	<b>b</b> 6 + 7 + ... + 11 + 12
<b>c</b> 6 + 7 + ... + 9 + 10	<b>d</b> 6 + 7 + ... + 10 + 11
<b>e</b> 7 + 8 + ... + 10 + 11	