



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

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

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

<b>a</b>	1 + 2 + ... + 24 + 25
<b>b</b>	1 + 2 + ... + 23 + 24
<b>c</b>	1 + 2 + ... + 22 + 23
<b>d</b>	0 + 1 + ... + 23 + 24
<b>e</b>	2 + 3 + ... + 23 + 24

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

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

<b>a</b>	2 + 3 + ... + 8 + 9
<b>b</b>	1 + 2 + ... + 8 + 9
<b>c</b>	1 + 2 + ... + 9 + 10
<b>d</b>	0 + 1 + ... + 8 + 9
<b>e</b>	1 + 2 + ... + 7 + 8

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

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

<b>a</b>	1 + 2 + ... + 17 + 18
<b>b</b>	2 + 3 + ... + 18 + 19
<b>c</b>	0 + 1 + ... + 18 + 19
<b>d</b>	1 + 2 + ... + 18 + 19
<b>e</b>	1 + 2 + ... + 19 + 20

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

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

<b>a</b>	1 + 2 + ... + 8 + 9
<b>b</b>	0 + 1 + ... + 9 + 10
<b>c</b>	1 + 2 + ... + 9 + 10
<b>d</b>	2 + 3 + ... + 9 + 10
<b>e</b>	1 + 2 + ... + 10 + 11

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

$$\frac{23(23 + 1)}{2}$$

<b>a</b>	1 + 2 + ... + 22 + 23
<b>b</b>	0 + 1 + ... + 22 + 23
<b>c</b>	2 + 3 + ... + 22 + 23
<b>d</b>	1 + 2 + ... + 21 + 22
<b>e</b>	1 + 2 + ... + 23 + 24

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

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

<b>a</b>	0 + 1 + ... + 20 + 21
<b>b</b>	1 + 2 + ... + 19 + 20
<b>c</b>	1 + 2 + ... + 20 + 21
<b>d</b>	1 + 2 + ... + 21 + 22
<b>e</b>	2 + 3 + ... + 20 + 21

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

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

<b>a</b>	2 + 3 + ... + 13 + 14
<b>b</b>	1 + 2 + ... + 13 + 14
<b>c</b>	1 + 2 + ... + 12 + 13
<b>d</b>	1 + 2 + ... + 14 + 15
<b>e</b>	0 + 1 + ... + 13 + 14