# Sums - Series of Integers M to N - Equation to Sum

**1** What is the sum of the integers from 8 to 18 based on this equation?

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

| A | B | C | D | E |
|---|---|---|---|---|
| 150 | 125 | 162 | 135 | 143 |

**2** What is the sum of the integers from 3 to 12 based on this equation?

$$\frac{12(12+1)}{2} - \frac{(3-1)3}{2}$$

| A | B | C | D | E |
|---|---|---|---|---|
| 88 | 75 | 77 | 72 | 63 |

**3** What is the sum of the integers from 4 to 17 based on this equation?

$$\frac{17(17+1)}{2} - \frac{(4-1)4}{2}$$

| A | B | C | D | E |
|---|---|---|---|---|
| 165 | 143 | 130 | 150 | 147 |

**4** What is the sum of the integers from 17 to 35 based on this equation?

$$\frac{35(35+1)}{2} - \frac{(17-1)17}{2}$$

| A | B | C | D | E |
|---|---|---|---|---|
| 459 | 530 | 494 | 510 | 477 |

**5** What is the sum of the integers from 20 to 34 based on this equation?

$$\frac{34(34+1)}{2} - \frac{(20-1)20}{2}$$

| A | B | C | D | E |
|---|---|---|---|---|
| 405 | 424 | 440 | 385 | 371 |

**6** What is the sum of the integers from 23 to 34 based on this equation?

$$\frac{34(34+1)}{2} - \frac{(23-1)23}{2}$$

| A | B | C | D | E |
|---|---|---|---|---|
| 377 | 308 | 342 | 364 | 319 |

**7** What is the sum of the integers from 8 to 28 based on this equation?

$$\frac{28(28+1)}{2} - \frac{(8-1)8}{2}$$

| A | B | C | D | E |
|---|---|---|---|---|
| 407 | 370 | 350 | 378 | 385 |

**8** What is the sum of the integers from 9 to 23 based on this equation?

$$\frac{23(23+1)}{2} - \frac{(9-1)9}{2}$$

| A | B | C | D | E |
|---|---|---|---|---|
| 248 | 217 | 264 | 231 | 240 |