



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

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1 What equation would give you the sum of this set of integers? $6 + 7 + \dots + 14 + 15$	a $\frac{15(15+1)}{2} - \frac{(6-1)6}{2}$	b $\frac{16(16+1)}{2} - \frac{(6-1)6}{2}$
	c $\frac{2}{15(15+1)}$	d $\frac{14(14+1)}{2} - \frac{(6-1)6}{2}$
	e $\frac{15(15+1)}{2}$	

2 What equation would give you the sum of this set of integers? $11 + 12 + \dots + 16 + 17$	a $\frac{17(17+1)}{2}$	b $\frac{17(17+1)}{2} - \frac{(11-1)11}{2}$
	c $\frac{17(17+1)}{2} - \frac{(12-1)12}{2}$	d $\frac{17(17+1)}{2} - \frac{(10-1)10}{2}$
	e $\frac{18(18+1)}{2} - \frac{(11-1)11}{2}$	

3 What equation would give you the sum of this set of integers? $13 + 14 + \dots + 18 + 19$	a $\frac{19(19+1)}{2} - \frac{(13-1)13}{2}$	b $\frac{2}{19(19+1)}$
	c $\frac{20(20+1)}{2} - \frac{(13-1)13}{2}$	d $\frac{18(18+1)}{2} - \frac{(13-1)13}{2}$

4 What equation would give you the sum of this set of integers? $12 + 13 + \dots + 20 + 21$	a $\frac{22(22+1)}{2} - \frac{(12-1)12}{2}$	b $\frac{21(21+1)}{2} - \frac{(13-1)13}{2}$
	c $\frac{21(21+1)}{2}$	d $\frac{21(21+1)}{2} - \frac{(12-1)12}{2}$

5 What equation would give you the sum of this set of integers? $3 + 4 + \dots + 10 + 11$	a $\frac{2}{11(11+1)}$	b $\frac{11(11+1)}{2} - \frac{(3-1)3}{2}$
	c $\frac{11(11+1)}{2} - \frac{(4-1)4}{2}$	d $\frac{11(11+1)}{2}$

6 What equation would give you the sum of this set of integers? $9 + 10 + \dots + 16 + 17$	a $\frac{18(18+1)}{2} - \frac{(9-1)9}{2}$	b $\frac{17(17+1)}{2}$
	c $\frac{17(17+1)}{2} - \frac{(8-1)8}{2}$	d $\frac{17(17+1)}{2} - \frac{(9-1)9}{2}$

7 What equation would give you the sum of this set of integers? $14 + 15 + \dots + 22 + 23$	a $\frac{2}{23(23+1)}$	b $\frac{22(22+1)}{2} - \frac{(14-1)14}{2}$
	c $\frac{24(24+1)}{2} - \frac{(14-1)14}{2}$	d $\frac{23(23+1)}{2} - \frac{(14-1)14}{2}$