



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

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1 What equation would let you calculate this summation form?

$$\sum_{n=12}^{20} n$$

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

b $\frac{2}{20(20+1)}$

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

d $\frac{20(20+1)}{2}$

2 What equation would let you calculate this summation form?

$$\sum_{n=9}^{16} n$$

a $\frac{16(16+1)}{2} - \frac{(9-1)9}{2}$

b $\frac{15(15+1)}{2} - \frac{(9-1)9}{2}$

c $\frac{17(17+1)}{2} - \frac{(9-1)9}{2}$

3 What equation would let you calculate this summation form?

$$\sum_{n=1}^{10} n$$

a $\frac{11(11+1)}{2}$

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

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

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

4 What equation would let you calculate this summation form?

$$\sum_{n=2}^9 n$$

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

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

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

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

5 What equation would let you calculate this summation form?

$$\sum_{n=5}^{10} n$$

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

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

c $\frac{10(10+1)}{2} - \frac{(6-1)6}{2}$

d $\frac{10(10+1)}{2} - \frac{(5-1)5}{2}$

6 What equation would let you calculate this summation form?

$$\sum_{n=8}^{15} n$$

a $\frac{2}{15(15+1)}$

b $\frac{15(15+1)}{2} - \frac{(8-1)8}{2}$

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

7 What equation would let you calculate this summation form?

$$\sum_{n=6}^{15} n$$

a $\frac{2}{15(15+1)}$

b $\frac{15(15+1)}{2}$

c $\frac{16(16+1)}{2} - \frac{(6-1)6}{2}$

d $\frac{15(15+1)}{2} - \frac{(6-1)6}{2}$