

路德會呂祥光小學

數學科課堂工作紙(錨式活動)

等差級數之和

姓名：\_\_\_\_\_ ( ) 班別：\_\_\_\_\_ 日期：\_\_\_\_\_

錨式活動

公式： 1.

$$\begin{aligned} & \text{等差數列之和} \\ & = (\text{首項} + \text{尾項}) \times \text{項數} \div 2 \end{aligned}$$

2.

$$\text{項數} = (\text{尾項} - \text{首項}) \div \text{公差} + 1$$

1.

$$\frac{1}{2} + 1 + 1 + \frac{1}{2} + \dots + 100 - 1 - 2 - 3 - \dots - 50 = ?$$

= \_\_\_\_\_

= \_\_\_\_\_

= \_\_\_\_\_

= \_\_\_\_\_

= \_\_\_\_\_

2.

$$0.12+0.23+0.34+\dots+2.1-\frac{1}{6}-\frac{1}{3}-\frac{1}{2}-\dots-2\frac{1}{2}=?$$

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= \_\_\_\_\_

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1.

$$\frac{1}{2} + 1 + 1 + \frac{1}{2} + \dots + 100 - 1 - 2 - 3 - \dots - 50 = ?$$

$$\left( \frac{1}{2} + 100 \right) \times 200 \div 2 - (1+2+\dots+50)$$

$$= 10050 + (1+50) \times 50 \div 2$$

$$= 10050 + 1275$$

$$= 11325$$

$$\begin{aligned}
& 0.12+0.23+0.34+\dots+2.1-\frac{1}{6}-\frac{1}{3}-\frac{1}{2}-\dots-2\frac{1}{2}=? \\
& =(0.12+0.23+0.34+\dots+2.1)-\left(\frac{1}{6}+\frac{1}{3}+\frac{1}{2}+\dots+2\frac{1}{2}\right) \\
& = (0.12+2.1)\times 19\div 2-\left(\frac{1}{6}+2\frac{1}{2}\right)\times 15\div 2 \\
& = 20.12+0.23+0.34+\dots+2.1-\frac{1}{6}-\frac{1}{3}-\frac{1}{2}-\dots-2\frac{1}{2}=? \\
& =1.09
\end{aligned}$$

$$0.12+0.23+0.34+\dots+2.1-\frac{1}{6}-\frac{1}{3}-\frac{1}{2}-\dots-2\frac{1}{2}=?$$

$$\begin{aligned}
& =(0.12+0.23+0.34+\dots+2.1)-\left(\frac{1}{6}+\frac{1}{3}+\frac{1}{2}+\dots+2\frac{1}{2}\right) \\
& = (0.12+2.1)\times 19\div 2-\left(\frac{1}{6}+2\frac{1}{2}\right)\times 15\div 2 \\
& =21.09-20 \\
& =1.09
\end{aligned}$$