

色々な重なり図形たし算 2

▶透明な板にかいだ図形を、向きはそのままにして重ねると、どのような図形になるか書きましょう。

$$\begin{array}{|c|c|} \hline \text{white} & \text{dark gray} \\ \hline \text{white} & \text{white} \\ \hline \end{array} + \begin{array}{|c|c|} \hline \text{white} & \text{white} \\ \hline \text{white} & \text{dark gray} \\ \hline \end{array} = \begin{array}{|c|c|} \hline \text{white} & \text{dark gray} \\ \hline \text{dark gray} & \text{white} \\ \hline \end{array}$$

$$\begin{array}{c} \boxed{\text{white}} \quad \boxed{\text{dark}} \\ \boxed{\text{dark}} \quad \boxed{\text{white}} \end{array} + \begin{array}{c} \boxed{\text{dark}} \quad \boxed{\text{white}} \\ \boxed{\text{white}} \quad \boxed{\text{dark}} \end{array} = \begin{array}{c} \boxed{\text{white}} \quad \boxed{\text{white}} \\ \boxed{\text{white}} \quad \boxed{\text{white}} \end{array}$$

A diagram illustrating matrix addition. It shows three 2x2 grids. The first grid has a shaded top-left square and white others. The second grid has a white top-left square and shaded others. Their sum is a matrix with all four squares shaded.

A diagram illustrating matrix addition. It shows three 2x2 grids. The first grid has a shaded bottom-left square. The second grid has a shaded top-left square. A plus sign (+) is placed between the first and second grids, and an equals sign (=) is placed after the second grid. The third grid, which is the sum, has a shaded bottom-left square.

$$\begin{array}{c}
 \boxed{\text{white}} \quad \boxed{\text{dark gray}} \\
 + \qquad \qquad \qquad = \\
 \boxed{\text{white}} \quad \boxed{\text{white}}
 \end{array}$$

$$\begin{array}{|c|c|} \hline \textcolor{white}{\square} & \textcolor{white}{\square} \\ \hline \textcolor{black}{\square} & \textcolor{black}{\square} \\ \hline \end{array} + \begin{array}{|c|c|} \hline \textcolor{black}{\square} & \textcolor{black}{\square} \\ \hline \textcolor{white}{\square} & \textcolor{white}{\square} \\ \hline \end{array} = \begin{array}{|c|c|} \hline \textcolor{white}{\square} & \textcolor{white}{\square} \\ \hline \textcolor{black}{\square} & \textcolor{black}{\square} \\ \hline \end{array}$$

$$\begin{array}{c} \boxed{} \\ + \\ \boxed{} \\ \hline \end{array}$$

$$\begin{array}{c} \boxed{} \\ + \\ \boxed{} \\ \hline \end{array}$$

$$\begin{array}{c}
 \text{[Diagram showing two 2x2 grids with shaded top-left and bottom-right corners, plus a 2x2 grid with all corners shaded, resulting in a 3x3 grid with all corners shaded.]}
 \end{array}$$

$$\begin{array}{c}
 \text{[Diagram showing two 2x2 grids with shaded top-left and bottom-right corners, plus a 2x2 grid with all corners shaded, followed by an equals sign and an empty 2x2 grid.]}
 \end{array}$$

$$\begin{array}{c}
 \text{[Diagram showing three separate 2x2 grids: the first is dark gray, the second is white, and the third is empty.]}
 \\[1em]
 \begin{array}{c|c}
 \text{[Diagram showing a 2x2 grid where the top-left cell is dark gray and the other three are white.]} & + & \begin{array}{c|c}
 \text{[Diagram showing a 2x2 grid where the bottom-left cell is dark gray and the other three are white.]} & = & \begin{array}{c|c}
 \text{[Diagram showing a 2x2 grid where all four cells are empty.]}
 \end{array}
 \end{array}
 \end{array}
 \end{array}$$

$$\begin{array}{c}
 \text{[Diagram showing three 2x2 grids: the first has two dark gray squares, the second has one white square and one dark gray square, and the third is empty.]}
 \\[1em]
 \text{[Diagram showing the addition of the second and third grids from above, resulting in a 2x2 grid with one white square and one dark gray square.]}
 \end{array}$$

$$\begin{array}{c}
 \boxed{} \quad \boxed{} \quad \boxed{} \\
 + \quad \boxed{} \quad \boxed{} \quad = \quad \boxed{} \quad \boxed{}
 \end{array}$$

$$\begin{array}{c}
 \begin{array}{|c|c|} \hline \end{array} \quad \begin{array}{|c|c|} \hline \end{array} \quad \begin{array}{|c|} \hline \end{array} \\
 + \quad \begin{array}{|c|c|} \hline \end{array} \quad = \quad \begin{array}{|c|c|} \hline \end{array}
 \end{array}$$