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アルファベット問題

アルファベット問題 解答手順

- 問題の上部に、A から I までの9つの□（マス目）があります。この中に、1から9までの整数が1つつ入ります。ヒントとして、点線の□には1、2、3が入ります。実線の□には4、5、6が入ります。二重線の□には7、8、9が入ります。また、問題によっては最初から数字が入っている場合があります。これらをヒントとして活用します。

 1 2 3 のいずれかが入る

 4 5 6 のいずれかが入る

 7 8 9 のいずれかが入る

A B C D E F G H I

$$\begin{aligned} \text{A} \times \text{B} - \text{C} &= 26 & (\text{D} + \text{E}) \times \text{F} &= 45 \\ \text{G} \times \text{H} \div \text{I} &= 18 \end{aligned}$$

$$\begin{aligned} \text{I} + \text{D} &= 11 & \text{H} + \text{C} \times \text{B} &= 20 \\ \text{A} \times \text{G} \div (\text{F} - \text{E}) &= 9 \end{aligned}$$

- 問題の下半分には、計算問題が3題ずつ上下のグループに分けられています。これにも A から I までのアルファベットが書いてありますが、計算の答えが合うように数字を入れていきます。

- 上下のグループに分かれていますが、同じアルファベットには同じ数字が入ります。

<実施例>

A B C D E F G H I

$$\begin{aligned} \text{A} \times \text{B} - \text{C} &= 26 & (\text{D} + \text{E}) \times \text{F} &= 45 \\ \text{G} \times \text{H} \div \text{I} &= 18 \end{aligned}$$

$$\begin{aligned} \text{I} + \text{D} &= 11 & \text{H} + \text{C} \times \text{B} &= 20 \\ \text{A} \times \text{G} \div (\text{F} - \text{E}) &= 9 \end{aligned}$$

- ヒントやアルファベットの配置を元にして、マス目に入る数字を推理します。上手に数字を当てはめ、6つの計算式を完成させます。

①

$\textcircled{\text{A}}$ 1	$\textcircled{\text{B}}$	$\textcircled{\text{C}}$	$\textcircled{\text{D}}$	$\textcircled{\text{E}}$	$\textcircled{\text{F}}$	$\textcircled{\text{G}}$	$\textcircled{\text{H}}$ 5	$\textcircled{\text{I}}$
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$$\textcircled{\text{A}} 1 + \textcircled{\text{B}} \times \textcircled{\text{C}} = 25 \quad \textcircled{\text{D}} \times \textcircled{\text{E}} \div \textcircled{\text{F}} = 21$$

$$\textcircled{\text{G}} \times \textcircled{\text{H}} 5 - \textcircled{\text{I}} = 38$$

$$\textcircled{\text{H}} 5 \times \textcircled{\text{E}} = 45 \quad (\textcircled{\text{G}} + \textcircled{\text{A}} 1) \times \textcircled{\text{C}} = 36$$

$$(\textcircled{\text{B}} - \textcircled{\text{F}}) \times (\textcircled{\text{I}} + \textcircled{\text{D}}) = 27$$

②

$\textcircled{\text{A}}$	$\textcircled{\text{B}}$	$\textcircled{\text{C}}$	$\textcircled{\text{D}}$ 5	$\textcircled{\text{E}}$	$\textcircled{\text{F}}$	$\textcircled{\text{G}}$	$\textcircled{\text{H}}$ 8	$\textcircled{\text{I}}$
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$$\textcircled{\text{A}} \times (\textcircled{\text{B}} + \textcircled{\text{C}}) = 22 \quad (\textcircled{\text{D}} 5 - \textcircled{\text{E}}) \times \textcircled{\text{F}} = 18$$

$$\textcircled{\text{G}} \times \textcircled{\text{H}} 8 - \textcircled{\text{I}} = 47$$

$$\textcircled{\text{A}} \times \textcircled{\text{F}} = 18 \quad \textcircled{\text{G}} \times \textcircled{\text{H}} 8 \div \textcircled{\text{C}} = 12$$

$$\textcircled{\text{E}} \times (\textcircled{\text{D}} 5 - \textcircled{\text{I}}) + \textcircled{\text{B}} = 19$$

①

$\textcircled{\text{A}} 1$	$\textcircled{\text{B}} 6$	$\textcircled{\text{C}} 4$	$\textcircled{\text{D}} 7$	$\textcircled{\text{E}} 9$	$\textcircled{\text{F}} 3$	$\textcircled{\text{G}} 8$	$\textcircled{\text{H}} 5$	$\textcircled{\text{I}} 2$
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$$\textcircled{\text{A}} 1 + \textcircled{\text{B}} 6 \times \textcircled{\text{C}} 4 = 25 \quad \textcircled{\text{D}} 7 \times \textcircled{\text{E}} 9 \div \textcircled{\text{F}} 3 = 21$$

$$\textcircled{\text{G}} 8 \times \textcircled{\text{H}} 5 - \textcircled{\text{I}} 2 = 38$$

$$\textcircled{\text{H}} 5 \times \textcircled{\text{E}} 9 = 45 \quad (\textcircled{\text{G}} 8 + \textcircled{\text{A}} 1) \times \textcircled{\text{C}} 4 = 36$$

$$(\textcircled{\text{B}} 6 - \textcircled{\text{F}} 3) \times (\textcircled{\text{I}} 2 + \textcircled{\text{D}} 7) = 27$$

②

$\textcircled{\text{A}} 2$	$\textcircled{\text{B}} 7$	$\textcircled{\text{C}} 4$	$\textcircled{\text{D}} 5$	$\textcircled{\text{E}} 3$	$\textcircled{\text{F}} 9$	$\textcircled{\text{G}} 6$	$\textcircled{\text{H}} 8$	$\textcircled{\text{I}} 1$
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$$\textcircled{\text{A}} 2 \times (\textcircled{\text{B}} 7 + \textcircled{\text{C}} 4) = 22 \quad (\textcircled{\text{D}} 5 - \textcircled{\text{E}} 3) \times \textcircled{\text{F}} 9 = 18$$

$$\textcircled{\text{G}} 6 \times \textcircled{\text{H}} 8 - \textcircled{\text{I}} 1 = 47$$

$$\textcircled{\text{A}} 2 \times \textcircled{\text{F}} 9 = 18 \quad \textcircled{\text{G}} 6 \times \textcircled{\text{H}} 8 \div \textcircled{\text{C}} 4 = 12$$

$$\textcircled{\text{E}} 3 \times (\textcircled{\text{D}} 5 - \textcircled{\text{I}} 1) + \textcircled{\text{B}} 7 = 19$$

③

$\textcircled{\text{A}}$ 	$\textcircled{\text{B}}$ 	$\textcircled{\text{C}}$ 5 	$\textcircled{\text{D}}$ 	$\textcircled{\text{E}}$ 	$\textcircled{\text{F}}$ 	$\textcircled{\text{G}}$ 	$\textcircled{\text{H}}$ 	$\textcircled{\text{I}}$
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$$\textcircled{\text{A}} + \textcircled{\text{B}} - \textcircled{\text{C}} 5 = 4$$

$$\textcircled{\text{D}} \times \textcircled{\text{E}} + \textcircled{\text{F}} = 38$$

$$(\textcircled{\text{G}} + \textcircled{\text{H}}) \times \textcircled{\text{I}} = 63$$

$$\textcircled{\text{H}} \times \textcircled{\text{D}} = 32$$

$$\textcircled{\text{I}} \times \textcircled{\text{E}} \div \textcircled{\text{B}} = 21$$

$$(\textcircled{\text{C}} 5 + \textcircled{\text{F}}) \times \textcircled{\text{A}} - \textcircled{\text{G}} = 41$$

④

$\textcircled{\text{A}}$ 	$\textcircled{\text{B}}$ 	$\textcircled{\text{C}}$ 	$\textcircled{\text{D}}$ 	$\textcircled{\text{E}}$ 	$\textcircled{\text{F}}$ 5 	$\textcircled{\text{G}}$ 	$\textcircled{\text{H}}$ 	$\textcircled{\text{I}}$
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$$\textcircled{\text{A}} + \textcircled{\text{B}} + \textcircled{\text{C}} = 12$$

$$\textcircled{\text{D}} \times \textcircled{\text{E}} \times \textcircled{\text{F}} 5 = 80$$

$$\textcircled{\text{G}} \times \textcircled{\text{H}} \div \textcircled{\text{I}} = 18$$

$$\textcircled{\text{I}} + \textcircled{\text{H}} = 12$$

$$(\textcircled{\text{F}} 5 - \textcircled{\text{E}}) \times \textcircled{\text{C}} = 21$$

$$\textcircled{\text{B}} \times (\textcircled{\text{A}} + \textcircled{\text{G}}) - \textcircled{\text{D}} = 20$$

③

$\textcircled{\text{A}} 6$	$\textcircled{\text{B}} 3$	$\textcircled{\text{C}} 5$	$\textcircled{\text{D}} 4$	$\textcircled{\text{E}} 9$	$\textcircled{\text{F}} 2$	$\textcircled{\text{G}} 1$	$\textcircled{\text{H}} 8$	$\textcircled{\text{I}} 7$
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$$\textcircled{\text{A}} 6 + \textcircled{\text{B}} 3 - \textcircled{\text{C}} 5 = 4$$

$$\textcircled{\text{D}} 4 \times \textcircled{\text{E}} 9 + \textcircled{\text{F}} 2 = 38$$

$$(\textcircled{\text{G}} 1 + \textcircled{\text{H}} 8) \times \textcircled{\text{I}} 7 = 63$$

$$\textcircled{\text{H}} 8 \times \textcircled{\text{D}} 4 = 32$$

$$\textcircled{\text{I}} 7 \times \textcircled{\text{E}} 9 \div \textcircled{\text{B}} 3 = 21$$

$$(\textcircled{\text{C}} 5 + \textcircled{\text{F}} 2) \times \textcircled{\text{A}} 6 - \textcircled{\text{G}} 1 = 41$$

④

$\textcircled{\text{A}} 1$	$\textcircled{\text{B}} 4$	$\textcircled{\text{C}} 7$	$\textcircled{\text{D}} 8$	$\textcircled{\text{E}} 2$	$\textcircled{\text{F}} 5$	$\textcircled{\text{G}} 6$	$\textcircled{\text{H}} 9$	$\textcircled{\text{I}} 3$
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$$\textcircled{\text{A}} 1 + \textcircled{\text{B}} 4 + \textcircled{\text{C}} 7 = 12$$

$$\textcircled{\text{D}} 8 \times \textcircled{\text{E}} 2 \times \textcircled{\text{F}} 5 = 80$$

$$\textcircled{\text{G}} 6 \times \textcircled{\text{H}} 9 \div \textcircled{\text{I}} 3 = 18$$

$$\textcircled{\text{I}} 3 + \textcircled{\text{H}} 9 = 12$$

$$(\textcircled{\text{F}} 5 - \textcircled{\text{E}} 2) \times \textcircled{\text{C}} 7 = 21$$

$$\textcircled{\text{B}} 4 \times (\textcircled{\text{A}} 1 + \textcircled{\text{G}} 6) - \textcircled{\text{D}} 8 = 20$$

⑤

$\textcircled{\text{A}}$	$\textcircled{\text{B}}$	$\textcircled{\text{C}}$	$\textcircled{\text{D}}$	$\textcircled{\text{E}}$	$\textcircled{\text{F}}$	$\textcircled{\text{G}}$ 5	$\textcircled{\text{H}}$	$\textcircled{\text{I}}$
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$$(\textcircled{\text{A}} - \textcircled{\text{B}}) \times \textcircled{\text{C}} = 18$$

$$\textcircled{\text{D}} + \textcircled{\text{E}} \times \textcircled{\text{F}} = 19$$

$$\textcircled{\text{G}} 5 \times \textcircled{\text{H}} - \textcircled{\text{I}} = 44$$

$$\textcircled{\text{F}} - \textcircled{\text{I}} = 7$$

$$\textcircled{\text{B}} \times (\textcircled{\text{E}} + \textcircled{\text{A}}) = 36$$

$$(\textcircled{\text{H}} + \textcircled{\text{G}} 5) \times \textcircled{\text{D}} \div \textcircled{\text{C}} = 7$$

⑥

$\textcircled{\text{A}}$	$\textcircled{\text{B}}$	$\textcircled{\text{C}}$	$\textcircled{\text{D}}$ 5	$\textcircled{\text{E}}$	$\textcircled{\text{F}}$	$\textcircled{\text{G}}$	$\textcircled{\text{H}}$	$\textcircled{\text{I}}$
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$$\textcircled{\text{A}} + \textcircled{\text{B}} \div \textcircled{\text{C}} = 11$$

$$(\textcircled{\text{D}} 5 + \textcircled{\text{E}}) \times \textcircled{\text{F}} = 42$$

$$\textcircled{\text{G}} \times \textcircled{\text{H}} \times \textcircled{\text{I}} = 48$$

$$\textcircled{\text{A}} + \textcircled{\text{C}} = 11$$

$$\textcircled{\text{F}} + \textcircled{\text{H}} - \textcircled{\text{D}} 5 = 4$$

$$(\textcircled{\text{B}} - \textcircled{\text{I}}) \times (\textcircled{\text{G}} + \textcircled{\text{E}}) = 35$$

⑤

$\textcircled{\text{A}} \boxed{7}$	$\textcircled{\text{B}} \boxed{4}$	$\textcircled{\text{C}} \boxed{6}$	$\textcircled{\text{D}} \boxed{3}$	$\textcircled{\text{E}} \boxed{2}$	$\textcircled{\text{F}} \boxed{8}$	$\textcircled{\text{G}} \boxed{5}$	$\textcircled{\text{H}} \boxed{9}$	$\textcircled{\text{I}} \boxed{1}$
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$$(\textcircled{\text{A}} \boxed{7} - \textcircled{\text{B}} \boxed{4}) \times \textcircled{\text{C}} \boxed{6} = 18 \quad \textcircled{\text{D}} \boxed{3} + \textcircled{\text{E}} \boxed{2} \times \textcircled{\text{F}} \boxed{8} = 36$$

$$\textcircled{\text{G}} \boxed{5} \times \textcircled{\text{H}} \boxed{9} - \textcircled{\text{I}} \boxed{1} = 44$$

$$\textcircled{\text{F}} \boxed{8} - \textcircled{\text{I}} \boxed{1} = 7$$

$$\textcircled{\text{B}} \boxed{4} \times (\textcircled{\text{E}} \boxed{2} + \textcircled{\text{A}} \boxed{7}) = 21$$

$$(\textcircled{\text{H}} \boxed{9} + \textcircled{\text{G}} \boxed{5}) \times \textcircled{\text{D}} \boxed{3} \div \textcircled{\text{C}} \boxed{6} = 7$$

⑥

$\textcircled{\text{A}} \boxed{8}$	$\textcircled{\text{B}} \boxed{9}$	$\textcircled{\text{C}} \boxed{3}$	$\textcircled{\text{D}} \boxed{5}$	$\textcircled{\text{E}} \boxed{1}$	$\textcircled{\text{F}} \boxed{7}$	$\textcircled{\text{G}} \boxed{6}$	$\textcircled{\text{H}} \boxed{2}$	$\textcircled{\text{I}} \boxed{4}$
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$$\textcircled{\text{A}} \boxed{8} + \textcircled{\text{B}} \boxed{9} \div \textcircled{\text{C}} \boxed{3} = 11 \quad (\textcircled{\text{D}} \boxed{5} + \textcircled{\text{E}} \boxed{1}) \times \textcircled{\text{F}} \boxed{7} = 42$$

$$\textcircled{\text{G}} \boxed{6} \times \textcircled{\text{H}} \boxed{2} \times \textcircled{\text{I}} \boxed{4} = 48$$

$$\textcircled{\text{A}} \boxed{8} + \textcircled{\text{C}} \boxed{3} = 11$$

$$\textcircled{\text{F}} \boxed{7} + \textcircled{\text{H}} \boxed{2} - \textcircled{\text{D}} \boxed{5} = 4$$

$$(\textcircled{\text{B}} \boxed{9} - \textcircled{\text{I}} \boxed{4}) \times (\textcircled{\text{G}} \boxed{6} + \textcircled{\text{E}} \boxed{1}) = 35$$