

53

乗法

年 組 番 名前

● 例題 1 ●

次の計算をなさい。

$$\begin{aligned}
 (1) & (-1) \times (-2) \times (-3) \\
 & = -(1 \times 2 \times 3) \leftarrow \text{が奇数個なら符号は-} \\
 & = \underline{\underline{-6}}
 \end{aligned}$$

$$\begin{aligned}
 (2) & (-2) \times (+3) \times (-5) \\
 & = +(2 \times 3 \times 5) \leftarrow \text{が偶数個なら符号は+} \\
 & = \underline{\underline{30}} \leftarrow \text{答えの正の符号+は省略}
 \end{aligned}$$

問1 次の計算をなさい。

$$\begin{aligned}
 (1) & (-1) \times (+3) \times (-4) \\
 & = +(1 \times 3 \times 4) \\
 & = +(3 \times 4) \\
 & = 12
 \end{aligned}$$

答. 12

$$\begin{aligned}
 (2) & (-2) \times (-4) \times (-7) \\
 & = -(2 \times 4 \times 7) \\
 & = -(8 \times 7) \\
 & = -56
 \end{aligned}$$

答. -56

$$\begin{aligned}
 (3) & (+2) \times (-3) \times (-8) \\
 & = +(2 \times 3 \times 8) \\
 & = +(6 \times 8) \\
 & = 48
 \end{aligned}$$

答. 48

$$\begin{aligned}
 (4) & (-5) \times (-2) \times (-9) \\
 & = -(5 \times 2 \times 9) \\
 & = -(10 \times 9) \\
 & = -90
 \end{aligned}$$

答. -90

$$\begin{aligned}
 (5) & 2 \times (-4.5) \times 7 \\
 & = -(2 \times 4.5 \times 7) \\
 & = -(9 \times 7) \\
 & = -63
 \end{aligned}$$

答. -63

$$\begin{aligned}
 (6) & (-5) \times (-2) \times (-6) \times (-5) \\
 & = +(5 \times 2 \times 6 \times 5) \\
 & = +10 \times 30 \\
 & = 300
 \end{aligned}$$

答. 300

$$\begin{aligned}
 (7) & (-1) \times (-4) \times (-5) \times (-5) \times (-2) \\
 & = -(1 \times 4 \times 5 \times 5 \times 2) \\
 & = -20 \times 10 \\
 & = -200
 \end{aligned}$$

答. -200

● 例題 2 ●

太郎くんは、次のような計算をしました。ア、イで使った計算法則を答えなさい。

$$\begin{aligned}
 & (-4) \times 9 \times (-25) \quad \left. \begin{array}{l} \text{ア} \\ \text{イ} \end{array} \right\} \\
 & = 9 \times (-4) \times (-25) \\
 & = 9 \times 100 \\
 & = 900
 \end{aligned}$$

ア: 乗法の交換法則

イ: 乗法の結合法則

問2 花子さんは、次のような計算をしました。ア、イで使った計算法則を答えなさい。

$$\begin{aligned}
 & (-25) \times 7 \times (-4) \quad \left. \begin{array}{l} \text{ア} \\ \text{イ} \end{array} \right\} \\
 & = 7 \times (-25) \times (-4) \\
 & = 7 \times 100 \\
 & = 700
 \end{aligned}$$

ア: 乗法の交換法則

イ: 乗法の結合法則

問3 計算方法を工夫して、次の計算をなさい。途中の計算も書きなさい

$$\begin{aligned}
 (1) & 5 \times (-37) \times (-2) \\
 & = 5 \times (-2) \times (-37) \\
 & = (-10) \times (-37) \\
 & = 370
 \end{aligned}$$

答. 370

$$\begin{aligned}
 (2) & (-25) \times 7 \times (-4) \\
 & = (-25) \times (-4) \times 7 \\
 & = 100 \times 7 \\
 & = 700
 \end{aligned}$$

答. 700

$$\begin{aligned}
 (3) & (-15) \times (-9) \times (-2) \\
 & = (-9) \times (-15) \times (-2) \\
 & = (-9) \times (+30) \\
 & = -270
 \end{aligned}$$

答. -270