

【解答】③乗法・除法

1 次の計算をなさい。

$$(1) \quad (-6) \times (-2) \\ = +(6 \times 2) \\ = \underline{12}$$

$$(2) \quad (+3) \times (-8) \\ = -(3 \times 8) \\ = \underline{-24}$$

$$(3) \quad (-12) \div (+3) \\ = -(12 \div 3) \\ = \underline{-4}$$

$$(4) \quad \left(-\frac{4}{3}\right) \div \left(-\frac{8}{15}\right) \\ = +\left(\frac{4}{3} \times \frac{15}{8}\right) \\ = \underline{\frac{5}{2}}$$

$$(5) \quad (-6) \times \left(-\frac{2}{9}\right) \times (-3) \\ = -(6 \times \frac{2}{9} \times 3) \\ = \underline{-4}$$

$$(6) \quad \left(-\frac{16}{3}\right) \div \left(-\frac{3}{5}\right) \div \left(-\frac{2}{3}\right) \\ = -\left(\frac{16}{3} \times \frac{5}{3} \times \frac{3}{2}\right) \\ = \underline{-\frac{40}{3}}$$

$$(7) \quad (-3)^2 \times (-4) \\ \left((-3)^2 = (-3) \times (-3) = 9\right) \\ = 9 \times (-4) \\ = \underline{-36}$$

$$(8) \quad (-6^2) \div (-3)^2 \\ \left((-6^2) = (-6 \times 6) = (-36), (-3)^2 = (-3) \times (-3) = 9\right) \\ = (-36) \div 9 \\ = \underline{-4}$$

2 次の計算をなさい。

$$(1) \quad -(-1)^{1000} \rightarrow (-1)^{1000} \text{は、} (-1) \text{を} 1000 \text{回かけるので、} \\ = -(+1) \quad \text{「-」が偶数個となり(+1)となる。} \\ = \underline{-1}$$

$$(2) \quad (-3) \times (-6) \div (-9) \div (-2) \\ = +(3 \times 6 \times \frac{1}{9} \times \frac{1}{2}) \\ = \underline{1}$$

$$(3) \quad -2^2 \times 12 \div (-3) \\ = -4 \times 12 \div (-3) \\ = +(4 \times 12 \div 3) \\ = \underline{16}$$

$$(4) \quad \left(-\frac{1}{2}\right)^2 \times \frac{2^2}{3} \div \frac{1}{9} \\ \left(\left(-\frac{1}{2}\right)^2 = \left(-\frac{1}{2}\right) \times \left(-\frac{1}{2}\right) = \frac{1}{4}, 2^2 = 4\right) \\ = +\left(\frac{1}{4} \times \frac{4}{3} \times \frac{9}{1}\right) = \underline{3}$$

$$(5) \quad \left(-\frac{2}{3}\right) \div \left(-\frac{5}{6}\right) \times \left(-\frac{5}{2}\right)^2 \\ \left(\left(-\frac{5}{2}\right)^2 = \left(-\frac{5}{2}\right) \times \left(-\frac{5}{2}\right) = \frac{25}{4}\right) \\ = \left(-\frac{2}{3}\right) \div \left(-\frac{5}{6}\right) \times \frac{25}{4} \\ = +\left(\frac{2}{3} \times \frac{6}{5} \times \frac{25}{4}\right) = \underline{5}$$

$$(6) \quad -(-2)^2 \div (-3) \times 6 \\ \left(-(-2)^2 = -(-2) \times (-2) = -(+4)\right) \\ = -(+4) \div (-3) \times 6 \\ = -(-4 \times \frac{1}{3} \times 6) \\ = -(-8) \\ = \underline{8}$$

$$(7) \quad \left(-\frac{9}{2}\right) \div \left(-\frac{3}{8}\right) \times \left(-\frac{3}{4}\right)^2 \div \left(-\frac{3}{2}\right)^2 \\ \left(\left(-\frac{3}{4}\right)^2 = \left(-\frac{3}{4}\right) \times \left(-\frac{3}{4}\right) = \frac{9}{16}, \left(-\frac{3}{2}\right)^2 = \left(-\frac{3 \times 3}{2}\right) = \left(-\frac{9}{2}\right)\right) \\ = \left(-\frac{9}{2}\right) \div \left(-\frac{3}{8}\right) \times \frac{9}{16} \div \left(-\frac{9}{2}\right) \\ = -\left(\frac{9}{2} \times \frac{8}{3} \times \frac{9}{16} \times \frac{2}{9}\right) = \underline{-\frac{3}{2}}$$

$$(8) \quad (-0.75) \times \left(-\frac{2}{3}\right)^2 \times (-0.375) \div (-0.25) \\ \left(-0.75 = -\frac{3}{4}, -0.375 = -\frac{3}{8}, -0.25 = -\frac{1}{4}\right) \\ = \left(-\frac{3}{4}\right) \times \left(+\frac{4}{9}\right) \times \left(-\frac{3}{8}\right) \div \left(-\frac{1}{4}\right) \\ = -\left(\frac{3}{4} \times \frac{4}{9} \times \frac{3}{8} \times \frac{4}{1}\right) = \underline{-\frac{1}{2}}$$