

中2～第5回単項式の乗法と除法～

氏名:

解答・解説

例題 次の計算をしなさい。

$$(1) \quad \underline{2x} \times \underline{5y}$$

$$= \underline{10xy}$$

$$(2) \quad \underline{6a} \times \left(\underline{-\frac{2}{3}b} \right)$$

$$= \underline{-4ab}$$

$$\begin{array}{l} \nearrow \\ 8 \times \left(\underline{-\frac{2}{3}} \right) \\ = -4 \end{array}$$

$$(3) \quad \underline{(-3x^2)} \times \underline{4xy}$$

$$= \underline{-12x^3y}$$

$$(4) \quad \underline{(-3ab)^2}$$

$$= \underline{(-3ab) \times (-3ab)}$$

$$= \underline{9a^2b^2}$$

$$(5) \quad \underline{5x^2y} \times \left(\underline{-2xy} \right)^3$$

$$= \underline{5x^2y} \times \underline{(-8x^3y^3)}$$

$$= \underline{-40x^5y^4}$$

$$(6) \quad \underline{15ab} \div \underline{(-5b)}$$

$$= \underline{-\frac{15ab}{5b}}$$

$$= \underline{-3a}$$

(別解)

$$\underline{15ab} \times \left(\underline{-\frac{1}{5b}} \right)$$

$$= \underline{-3a}$$

$$(7) \quad \underline{12m^2} \div \underline{\frac{3}{4}m}$$

$$= \underline{12m^2} \div \underline{\frac{3m}{4}}$$

$$= \underline{12m^2} \times \underline{\frac{4}{3m}}$$

$$= \underline{16m}$$

$$(8) \quad \left(\underline{-\frac{9}{8}a^2b} \right) \div \underline{\frac{3}{4}ab}$$

$$= \underline{\left(-\frac{9a^2b}{8} \right)} \div \underline{\frac{3ab}{4}}$$

$$= \underline{-\frac{9a^2b}{8}} \times \underline{\frac{4}{3ab}}$$

$$= \underline{-\frac{3a}{2}}$$

$$(9) \quad \left(\underline{-\frac{9}{16}m^2n} \right) \div \underline{\frac{3}{8}mn^2}$$

$$= \underline{-\frac{9m^2n}{16}} \div \underline{\frac{3mn^2}{8}}$$

$$= \underline{-\frac{9m^2n}{16}} \times \underline{\frac{8}{3mn^2}}$$

$$= \underline{-\frac{3m}{2n}}$$