

乗法 $\sim$ } をメインにしています。
 除法 $\sim$

①、③、①、⑤はノートを確認しよう。

授業(17)-5

授業(17)-2 めあて「単項式どうしの乗法をしよう!」の<やってみよう>解答

$$\begin{aligned}
 1. \quad & 5x \times 4y \\
 & = 5 \times x \times 4 \times y \quad \downarrow \textcircled{1} \\
 & = 5 \times 4 \times x \times y \quad \downarrow \textcircled{2} \\
 & = 20xy \quad \downarrow \textcircled{3}
 \end{aligned}$$

$$\begin{aligned}
 2. \quad & (-3n) \times (-2m) \\
 & = (-3) \times n \times (-2) \times m \quad \downarrow \textcircled{1} \\
 & = (-3) \times (-2) \times n \times m \quad \downarrow \textcircled{2} \\
 & = 6nm \quad \downarrow \textcircled{3} \\
 & = 6mn
 \end{aligned}$$

↓ ×
 文字とアルファベットの
 順に表そう

$$\begin{aligned}
 3. \quad & 5a \times (-a^2) \\
 & = 5 \times a \times (-1) \times a \times a \quad \downarrow \textcircled{1} \\
 & = 5 \times (-1) \times a \times a \times a \quad \downarrow \textcircled{2} \\
 & = -5a^3 \quad \downarrow \textcircled{3}
 \end{aligned}$$

$$\begin{aligned}
 4. \quad & ab \times 4ab^2 \\
 & = a \times b \times 4 \times a \times b \times b \quad \downarrow \textcircled{1} \\
 & = 4 \times a \times a \times b \times b \times b \quad \downarrow \textcircled{2} \\
 & = 4a^2b^3 \quad \downarrow \textcircled{3}
 \end{aligned}$$

授業(17)-3 めあて「単項式どうしの乗法をしよう!」の<やってみよう>解答

$$\begin{aligned}
 1. \quad & 8xy \div (-2x) \quad \downarrow \textcircled{1} \\
 & = 8xy \div \left(-\frac{2x}{1}\right) \quad \downarrow \textcircled{2} \\
 & = 8xy \times \left(-\frac{1}{2x}\right) \quad \downarrow \textcircled{3} \\
 & = -\frac{8xy}{2x} \quad \downarrow \textcircled{4} \\
 & = -\frac{4 \times \cancel{8} \times \cancel{x} \times y}{1 \times \cancel{x} \times \cancel{x}} \quad \downarrow \textcircled{5} \\
 & = -4y
 \end{aligned}$$

$$\begin{aligned}
 2. \quad & \frac{1}{2}a^2b \div \frac{2}{3}a \quad \downarrow \textcircled{1} \\
 & = \frac{a^2b}{2} \div \frac{2a}{3} \quad \downarrow \textcircled{2} \\
 & = \frac{a^2b}{2} \times \frac{3}{2a} \quad \downarrow \textcircled{3} \\
 & = \frac{a^2b \times 3}{2 \times 2a} \quad \downarrow \textcircled{4} \\
 & = \frac{\cancel{a} \times a \times b \times 3}{2 \times 2 \times \cancel{a}} \quad \downarrow \textcircled{5} \\
 & = \frac{3ab}{4} \quad (\frac{3}{4}ab \text{ としても可})
 \end{aligned}$$