

| | | |
|-----|-----|-----|
| 開始日 | 終了日 | 解説 |
| / | / | NO8 |

| |
|--------------|
| 式の計算 NO8B |
| 中2 単項式÷単項式-① |

| | |
|------|-----|
| NAME | 10A |
| | |

Aコース

Bコース

Cコース

① $-15xy \div 5xy \times (-2x)$

$$= \frac{-15xy}{1} \div \frac{5xy}{1} \times \frac{-2x}{1}$$

$$= + \frac{15xy}{1} \times \frac{1}{5xy} \times \frac{2x}{1}$$

$$= + 6x$$

② $8mn \div (-3m) \div 6mn$

$$= \frac{8mn}{1} \div \frac{-3m}{1} \div \frac{6mn}{1}$$

$$= - \frac{8mn}{1} \times \frac{1}{3m} \times \frac{1}{6mn}$$

$$= - \frac{4}{9m}$$

③ $15x^2y^3 \div 5xy^4 \times (3x)^2$

$$= 15x^2y^3 \div 5xy^4 \times 9x^2$$

$$= \frac{15x^2y^3}{1} \div \frac{5xy^4}{1} \times \frac{9x^2}{1}$$

$$= \frac{15x^2y^3}{1} \times \frac{1}{5xy^4} \times \frac{9x^2}{1}$$

$$= \frac{4x^3}{y}$$

④ $16a^3b^2 \div (3a)^2 \div (-2b)^2$

$$= 16a^3b^2 \div 9a^2 \div 4b^2$$

$$= \frac{16a^3b^2}{1} \div \frac{9a^2}{1} \div \frac{4b^2}{1}$$

$$= \frac{16a^3b^2}{1} \times \frac{1}{9a^2} \times \frac{1}{4b^2}$$

$$= \frac{4a}{9}$$

⑤ $6mn^3 \div \frac{2}{3}m^2n \times (-2m)^2$

$$= 6mn^3 \div \frac{2}{3}m^2n \times 4m^2$$

$$= \frac{6mn^3}{1} \div \frac{2m^2n}{3} \times \frac{4m^2}{1}$$

$$= \frac{6m^3n^3}{1} \times \frac{3}{2m^2n} \times \frac{4m^2}{1}$$

$$= 36mn^2$$

① $24a^5b^3 \div (-3a^2b) \div 10ab$

$$= \frac{24a^5b^3}{1} \div \frac{(-3a^2b)}{1} \div \frac{10ab}{1}$$

$$= - \frac{24a^5b^3}{1} \times \frac{1}{3a^2b} \times \frac{1}{10ab}$$

$$= - \frac{4a^2b}{5}$$

② $18ab \times (-2ab) \div 9ab$

$$= \frac{18ab}{1} \times \frac{(-2ab)}{1} \div \frac{9ab}{1}$$

$$= - \frac{18ab \times 2ab}{1 \times 1} \times \frac{1}{9ab}$$

$$= - 4ab$$

③ $-9m^2n^5 \div (-6mn^4) \div 3m^2n$

$$= \frac{-9m^2n^5}{1} \div \frac{-6mn^4}{1} \div \frac{3m^2n}{1}$$

$$= \frac{9m^2n^5}{1} \times \frac{1}{6mn^4} \times \frac{1}{3m^2n}$$

$$= \frac{1}{2m}$$

④ $-2x^3y \times (-12xy) \div (-8xy^3)$

$$= \frac{-2x^3y}{1} \times \frac{-12xy}{1} \div \frac{-8xy^3}{1}$$

$$= - \frac{2x^3y \times 12xy}{1 \times 1} \times \frac{1}{8xy^3}$$

$$= - \frac{3x^3}{y}$$

⑤ $-2xy \times (-3y)^3 \div (6x)^2$

$$= -2xy \times (-27y^3) \div 36x^2$$

$$= \frac{-2xy \times (-27y^3)}{1} \div \frac{36x^2}{1}$$

$$= \frac{2xy \times 27y^3}{1 \times 1} \times \frac{1}{36x^2}$$

$$= \frac{3y^4}{2x}$$

① $\frac{9}{10}m^3n \times 2n \div 3m^2$

$$= \frac{9m^3n}{10} \times \frac{2n}{1} \div \frac{3m^2}{1}$$

$$= \frac{9m^3n \times 2n}{10 \times 1} \times \frac{1}{3m^2}$$

$$= \frac{3mn^2}{5}$$

② $-\frac{2}{3}ab^3 \times 3a \div \frac{1}{6}b^4$

$$= - \frac{2ab^3}{3} \times \frac{3a}{1} \div \frac{b^4}{6}$$

$$= - \frac{2ab^3 \times 3a}{3 \times 1} \times \frac{6}{b^4}$$

$$= - \frac{12a^2}{b}$$

③ $-\frac{8}{15}x^3y^4 \div (-2x)^2 \div \frac{2}{5}y^2$

$$= - \frac{8}{15}x^3y^4 \div (4x^2) \div \frac{2}{5}y^2$$

$$= - \frac{8x^3y^4}{15} \div \frac{4x^2}{1} \div \frac{2y^2}{5}$$

$$= - \frac{8x^3y^4}{15} \times \frac{1}{4x^2} \times \frac{5}{2y^2}$$

$$= - \frac{xy^2}{3}$$

④ $10a^2x \div (-\frac{5}{8}ax) \times (-a)^2$

$$= 10a^2x \div (-\frac{5}{8}ax) \times a^2$$

$$= \frac{10a^2x}{1} \div (-\frac{5ax}{8}) \times \frac{a^2}{1}$$

$$= - \frac{10a^2x \times 8}{1 \times 5ax} \times \frac{aa}{1}$$

$$= - 16a^3$$

⑤ $6x^2y^3 \div (2x)^2 \div (-\frac{3}{4}xy)$

$$= 6x^2y^3 \div 4x^2 \div (-\frac{3}{4}xy)$$

$$= \frac{6x^2y^3}{1} \div \frac{4x^2}{1} \div (-\frac{3xy}{4})$$

$$= - \frac{6x^2y^3}{1} \times \frac{1}{4x^2} \times \frac{4}{3xy}$$

$$= - \frac{2y^2}{x}$$