

## 【中2数学 | 式の計算】

1、次の計算をなさい。

(1)  $(2m^3n)^2 \times (-3mn) \div (-6mn^2)$

$$\overset{2}{\cancel{4}m^6\cancel{n}^2} \times \overset{1}{\cancel{-3}m\cancel{n}} \times \left( \overset{1}{\cancel{-6}m\cancel{n}^2} \right) = 2m^6n$$

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

$$\overset{2}{\cancel{12}x^4\cancel{y}^3} \times \frac{1}{\overset{2}{\cancel{9}x^2\cancel{y}^4}} \times \left( \overset{1}{\cancel{-2}xy} \right) = -\frac{2x}{3y^2}$$

(3)  $9xz^3 \div (-24x^2yz) \times (2x^2y)^2$

$$\overset{3}{\cancel{9}xz^3} \times \left( \overset{1}{\cancel{-24}x^2\cancel{y}\cancel{z}} \right) \times \overset{2}{\cancel{4}x^4\cancel{y}^2} = -\frac{3}{2}x^3yz^2$$

(4)  $36x^3y^2 \div (-3x^2y)^2 \times (-5x^2)$

$$\overset{4}{\cancel{36}x^3\cancel{y}^2} \times \frac{1}{\overset{2}{\cancel{9}x^4\cancel{y}^2}} \times \overset{1}{\cancel{-5}x^2} = -20x$$

(5)  $\left(-\frac{4}{3}x^2y^3\right)^2 \div \frac{2}{9}xy^2 \div \left(-\frac{2}{5}xy\right)^3$

$$\frac{\overset{2}{\cancel{16}}x^4\cancel{y}^6}{\overset{1}{\cancel{9}}} \times \frac{\overset{1}{\cancel{9}}}{\overset{2}{\cancel{2}x\cancel{y}^2}} \times \left( \overset{3}{\cancel{-8}x^3\cancel{y}^3} \right) = -125y$$