



1. 次の計算をなさい。

(1) $(-4x) \times 2xy$

(2) $\frac{8}{3}x \times \frac{4}{3}x$

(3) $(-8abc) \times \frac{a}{4bc}$
$$\frac{-8a^2bc}{4bc}$$

(4) $\frac{1}{3}a^2 \div 6a$
$$\frac{a^2 \times 1}{3 \times 6a} = \frac{a^2}{18a}$$

(5) $\left(-\frac{5}{3x}\right) \div \left(-\frac{1}{6x^2}\right)$
$$= \frac{(-5) \times (-6x^2)}{3x \times 1} = \frac{30x^2}{3x}$$

(6) $3a^2b^2c^4 \div 12ab^2c^2$
$$= \frac{3a^2b^2c^4}{12ab^2c^2}$$

(1) $-8x^2y$	(2) $\frac{32}{9}x^2$	(3) $-2a^2$
(4) $\frac{a}{18}$	(5) $10x$	(6) $\frac{ac^2}{4}$

2. 次の計算をなさい。

(1) $10x^3 \div 5x \times 2x^2$
$$\frac{10x^3 \times 1 \times 2x^2}{5x} = \frac{20x^5}{5x}$$

(2) $4ac \times (-2bc) \div 6ac$
$$\frac{4ac \times (-2bc) \times 1}{6ac} = -\frac{8abc^2}{6ac}$$

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

(4) $(-4x^2) \times y^2 \times \left(-\frac{y}{2}\right) \div 6xy$
$$\frac{(-4x^2) \times y^2 \times (-y) \times 1}{2 \times 6xy} = \frac{4x^2y^3}{12xy}$$

(5) $a^3b^4c^2 \div b^2 \times (-ac) \div b^3c$
$$\frac{a^3b^4c^2 \times 1 \times (-ac) \times 1}{b^2 \times b^3c} = -\frac{a^4b^4c^3}{b^5c}$$

(6) $\left(-\frac{3}{5}x^2yz\right) \times 5xyz^2 \div \left(-\frac{yz}{2}\right)$
$$\frac{(-3x^2yz) \times 5xyz^2 \times (-2)}{5 \times yz} = \frac{30x^3y^2z^3}{5yz}$$

(1) $4x^4$	(2) $-\frac{4bc}{3}$	(3) $-x^2y^2z$
(4) $\frac{xy^2}{3}$	(5) $-\frac{a^4c^2}{b}$	(6) $6x^3yz^2$

3. 次の計算をなさい。

$a = \frac{7}{2}, b = -\frac{10}{7}$ の時の $3a \times a^4b^3 \div 3a^3b^2$

-5

$$\frac{3a \times a^4b^3 \times 1}{1 \times 1 \times 3a^3b^2} = \frac{3a^4b^3}{3a^3b^2} = ab, ab = -\frac{7 \times 10}{2 \times 7} = -5$$