

## 数学テスト No.2 こたえ

単項式の乗法と除法，式の値

日付： \_\_\_\_\_

点数： \_\_\_\_\_

次の計算をなさい．

1.  $ab \times 5a^2 = 5a^3b$

2.  $18xy \times \left(-\frac{1}{3}x\right) = -6x^2y$

3.  $15a^2b \div (-3ab) = -5a$

4.  $(3x)^2 \div \frac{1}{2}xy \times y = 72x$

5.  $3ab \div 2a \times (-4a^2b) = -6a^2b^2$

6.  $-6a^2b \div \frac{2}{3}a \div (-b)^2 = -\frac{9a}{b}$

7.  $a \times b^2 \div ab = b$

8.  $(-5m)^2 = 25m^2$

9.  $8a \times (-a^2) = -8a^3$

10.  $\frac{3}{4}b^2c \div \frac{5}{8}bc^2 = \frac{6b}{5c}$

11.  $6xy \div \frac{2}{3}y = 9x$

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

13.  $a = 5, b = -1$  のとき，次の式の値を求めなさい．

(a)  $3a + 5b = 3 \times 5 + 5 \times (-1) = 10$

(b)  $5(a - 3b) + 4(-2a + 5b) = -3a + 5b = -3 \times 5 + 5 \times (-1) = -20$

(c)  $9a^3b \div (-3a^2) = -3ab = -3 \times 5 \times (-1) = 15$

(d)  $8ab^2 \div 4b = 2ab = 2 \times 5 \times (-1) = -10$

14.  $x = -3, y = \frac{1}{2}$  のとき，次の式の値を求めなさい．

(a)  $\frac{1}{2}(2x - 6y) - (x + y) = -4y = -4 \times \frac{1}{2} = -2$

(b)  $16x^3y^2 \div (-2x^3y) = -16y = -16 \times \frac{1}{2} = -8$

15.  $x, y$  が次の値の時， $x^2 + 4y$  の値を求めなさい．

(a)  $x = 3, y = 2$        $9 + 8 = 17$

(b)  $x = -4, y = -3$        $16 - 12 = 4$