

有理数的混合运算（40 道题）

1、【基础题】计算：

$$(1) 18 - 6 \div (-2) \times (-\frac{1}{3});$$

$$(2) 3 + 2^2 \times (-\frac{1}{5});$$

$$(3) (-9) \times (-4) + (-60) \div 12;$$

$$(4) (-3)^2 \times [-\frac{2}{3} + (-\frac{5}{9})].$$

2、【基础题】计算：

$$(1) 8 + (-3)^2 \times (-2);$$

$$(2) 100 \div (-2)^2 - (-2) \div (-\frac{2}{3});$$

$$(3) (-4) \div (-\frac{3}{4}) \times (-3);$$

$$(4) (-\frac{1}{3}) \div (-\frac{1}{3})^2 - 4 \times (-\frac{1}{2})^3.$$

3、【基础题】计算：

$$(1) 36 \times (\frac{1}{2} - \frac{1}{3})^2;$$

$$(2) 12.7 \div (-\frac{8}{19}) \times 0;$$

$$(3) 4 \times (-3)^2 + 6;$$

$$(4) (-\frac{3}{4}) \times (-8 + \frac{2}{3} - \frac{1}{3});$$

$$(5) (-2)^3 - 13 \div (-\frac{1}{2});$$

$$(6) 0 - 2^3 \div (-4)^3 - \frac{1}{8};$$

$$(7) (-2)^3 \times 0.5 - (-1.6)^2 \div (-2)^2;$$

$$(8) (-\frac{3}{2}) \times [(-\frac{2}{3})^2 - 2];$$

$$(9) [(-3)^2 - (-5)^2] \div (-2);$$

$$(10) 16 \div (-2)^3 - (-\frac{1}{8}) \times (-4).$$

4、【基础题】计算：

$$(1) 11 + (-22) - 3 \times (-11);$$

$$(2) (-\frac{3}{4}) \times (-\frac{2}{3} - \frac{1}{3}) \times 0;$$

$$(3) (-2)^3 - 3^2;$$

$$(4) 23 \div [(-2)^3 - (-4)];$$

$$(5) (\frac{3}{4} - \frac{7}{8}) \div (-\frac{7}{8});$$

$$(6) (-60) \times (\frac{3}{4} + \frac{5}{6});$$

$$(7) -7^2 + 2 \times (-3)^2 + (-6) \div (-\frac{1}{3})^2;$$

$$(8) (-\frac{1}{6} - \frac{3}{20} + \frac{4}{5} - \frac{7}{12}) \times (-15 \times 4).$$

5、【基础题】计算：

$$(1) 8 - (-25) \div (-5);$$

$$(2) -1^3 - 2 \times (-1)^3;$$

$$(3) (-2) \times 3^2 - (-2 \times 3)^2;$$

$$(4) \left(-\frac{3}{4}\right)^2 \times \left(-\frac{2}{3} + 1\right) \times 0; \quad (5) 6 + 2^2 \times \left(-\frac{1}{5}\right); \quad (6) -10 + 8 \div (-2)^2 - 4 \times 3;$$

$$(7) -1^5 - [(-0.4) \times (-2.5)]^5;$$

$$(8) (-1)^{25} - (1 - 0.5) \times \frac{1}{3};$$

6、【基础题】计算：

$$(1) (-8) \times 5 - 40;$$

$$(2) (-1.2) \div \left(-\frac{1}{3}\right) - (-2);$$

$$(3) -20 \div 5 \times \frac{1}{4} + 5 \times (-3) \div 15;$$

$$(4) -3[-5 + (1 - 0.2 \div \frac{3}{5}) \div (-2)];$$

$$(5) -2^3 \div 1\frac{3}{5} \times \left(-1\frac{1}{3}\right)^2 \div \left(1\frac{2}{3}\right)^2;$$

$$(6) -\frac{2}{5} + \left(\frac{5}{8} - \frac{1}{6} + \frac{7}{12}\right) \times (-2.4)$$

参考答案

1、【答案】 (1) 17; (2) $\frac{11}{5}$; (3) 31; (4) -11

2、【答案】 (1) -10; (2) 22; (3) -16; (4) $-\frac{5}{2}$

3、【答案】 (1) 1; (2) 0; (3) 42; (4) $\frac{23}{4}$; (5) 18; (6) 0; (7) -4.64;
(8) $\frac{7}{3}$; (9) 8; (10) $-\frac{5}{2}$.

4、【答案】 (1) 22; (2) 0; (3) -17; (4) $-\frac{23}{4}$; (5) $\frac{1}{7}$; (6) -95; (7) -85;
(8) 6.

5、【答案】 (1) 3; (2) 1; (3) -54; (4) 0; (5) $\frac{26}{5}$; (6) -20; (7) -2; (8) $-\frac{7}{6}$.

6、【答案】 (1) -80; (2) 5.6; (3) -2; (4) 16; (5) $-\frac{16}{5}$; (6) -2.9