

暑假预习七上数学有理数的混合运算100道

1. 计算

$$(1)(-3)-(+6)+3+(-1);$$

$$(2)11+(-35)-(-41)+(-16);$$

$$(3)\left(-3\frac{2}{3}\right)-\left(-2\frac{3}{4}\right)-\left(-1\frac{2}{3}\right)-(+1.75);$$

$$(4)\left(-4\frac{7}{8}\right)-\left(-5\frac{1}{2}\right)+\left(-4\frac{1}{4}\right)-\left(+3\frac{1}{8}\right).$$

2. 计算

$$(1)(-63)+17+|-23|+68$$

$$(2)3\frac{1}{2}+\left(-\frac{1}{3}\right)+\left(-3\frac{1}{2}\right)+2\frac{1}{3}$$

$$(3)-20-(+14)+(-18)-(-13)$$

$$(4)|-45|+(-71)+|-5|+(-9)$$

3. 计算：

$$(1)(-201)+135+201+(-85);$$

$$(2)-3+(-5)-|-6|-(-4)$$

$$(3)\left(-\frac{5}{2}\right)+\frac{5}{6}+(-0.5)+\left(+\frac{7}{6}\right);$$

$$(4)\left(-\frac{2}{3}\right)+\left(-\frac{1}{6}\right)-\left(-\frac{1}{4}\right)-\frac{1}{2}$$

4. 计算

$$(1) 0 - 4 - (-5)$$

$$(2) -20 - (-18) + (-14) + 13$$

$$(3) 3\frac{1}{2} - (-2\frac{1}{4}) + (-\frac{1}{3}) - \frac{1}{4} - (+\frac{1}{6})$$

$$(4) -5.4 + 0.2 - 0.6 + 1.8$$

$$(5) \frac{2}{5} - \left| -1\frac{1}{2} \right| - (+2\frac{1}{4}) - (-2.75)$$

$$(6) \left(-3\frac{2}{3} \right) - (-2.4) + \left(-\frac{1}{3} \right) - \left(+4\frac{2}{5} \right)$$

5. 计算

$$(1) -4.2 + 5.7 - 8.4 + 10 ;$$

$$(2) 12 - (-18) + (-7) - 15 ;$$

$$(3) |-16| + |36| - |-1| ;$$

$$(4) (-0.8) + 1.2 + (-0.7) + (-2.1) + 0.8 + 3.5 ;$$

$$(5) \frac{1}{2} + \left(-\frac{2}{3} \right) + \frac{4}{5} + \left(-\frac{1}{2} \right) + \left(-\frac{1}{3} \right) ;$$

$$(6) 4.7 - (-8.9) - 7.5 + (-6) ;$$

$$(7) 5 + (-6) + 9 + 3 + (-4) + (-7) ;$$

$$(8) \left(-4\frac{7}{8} \right) - \left(-5\frac{1}{2} \right) + \left(-4\frac{1}{4} \right) - \left(+3\frac{1}{8} \right) .$$

6. 计算：

$$(1) 36 \div \frac{6}{3} \times \frac{3}{6} \div (-9);$$

$$(2) \left(-\frac{3}{4} - \frac{5}{9} + \frac{7}{6} \right) \div \frac{1}{36};$$

$$(3) 99 \frac{16}{17} \times (-17);$$

$$(4) 1\frac{1}{2} \times \frac{5}{7} - \left(-\frac{5}{7} \right) \times 2\frac{1}{2} + \left(-\frac{1}{2} \right) \times \frac{5}{7}.$$

7. 计算:

$$(1) \left(-\frac{8}{15} \right) \times \left(-\frac{5}{12} \right);$$

$$(2) 8 \times \left(-\frac{5}{3} \right) \times (-0.25) \div \left(-\frac{5}{6} \right);$$

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

$$(4) \left(\frac{1}{6} - \frac{2}{3} + \frac{5}{9} \right) \times (-18).$$

8. 计算:

$$(1) (-0.25) \times \left[(-3) \times 8 \times (-40) \times \left(-\frac{1}{3} \right) \right] \times 12.5 \quad (2) -32 \frac{16}{25} \div (-8 \times 4)$$

$$(3) (-3) \times \left[-5 + \left(1 - 2 \times \frac{2}{3} \right) \div (-2) \right]$$

$$(4) \frac{1}{60} \div \left(\frac{2}{3} - \frac{11}{12} - \frac{14}{15} \right)$$

9. 简便计算

$$(1) 5.8 \times 25\% + 0.25 \times 4.2 \quad (2) 18 \times 25\% + \frac{1}{4} \times 40 + 42 \times 0.25 \quad (3) 40 \times (1 - 10\%) \times (1 + 10\%)$$

10. 计算：

$$(1) -3^2 + 1 \div 4 \times \frac{1}{4} - \left| -1\frac{1}{4} \right| \times (-0.5)^2; \quad (2) \left(-\frac{7}{9} + \frac{5}{6} - \frac{3}{4} \right) \times (-36); \quad (3) -1^4 - (1 - 0.5) \div 3 \times \left| 1 - (-5)^2 \right|.$$

11. 计算下列各题：

$$(1) 18 - 6 \div (-2) \times \left(-\frac{1}{3} \right) \quad (2) -2\frac{1}{3} \times \left(1 - 1\frac{2}{7} \right) + \left(-5\frac{1}{3} \right) \div 1\frac{7}{9} \quad (3) -3 - \left[-5 + \left(1 - 0.2 \times \frac{5}{3} \right) \div (-2) \right]$$

$$(4) -\frac{2}{3} \div \left(-\frac{4}{3} \right) - 24 \times \left(\frac{2}{3} - \frac{3}{4} - \frac{1}{12} \right) \quad (5) (-1)^2 - 3^2 \times \left[-2 \times 5 + (-3)^2 \right] - 9$$

12. 计算：

$$(1) \left(\left| -3\frac{1}{2} \right| - \left| 2\frac{1}{2} \right| \right) \div (-0.5)^3 \times (-4)^2; \quad (2) \left(\frac{7}{9} - \frac{11}{12} \right) \div \frac{1}{36} + \frac{15}{49} \div (-2)^2 - 0.25 \times \left(-1\frac{1}{7} \right)^2.$$

13. 计算（能用简便方法计算的尽量用简便方法）：

$$(1) -16 - (-12) - 24 + 18; \quad (2) (-5) + (-7) - (+13) - (-19);$$

$$(3) 3.5 - 4.6 + 3.5 - 2.4; \quad (4) \frac{1}{2} - \frac{2}{3} + \frac{4}{5} - \frac{1}{2} - \frac{1}{3};$$

$$(5) 0.25 + \frac{1}{12} + \left(-\frac{2}{3}\right) - \frac{1}{4} + \left(-\frac{5}{12}\right); \quad (6) \frac{3}{4} - \frac{7}{2} + \left(-\frac{1}{6}\right) - \left(-\frac{2}{3}\right) - 1;$$

$$(7) |-0.75| + (-3) - (-0.25) + \left|-\frac{1}{8}\right| + \frac{7}{8}; \quad (8) \left|-\frac{1}{2}\right| - (-2.5) - (-1) - \left|0 - 2\frac{1}{2}\right|;$$

$$(9) \left|-7\frac{3}{8} + 4\frac{1}{2}\right| + \left(-18\frac{1}{4}\right) + \left|-6 - \frac{1}{2}\right|; \quad (10) -\frac{1}{2} - \frac{1}{6} - \frac{1}{12} - \frac{1}{20} - \frac{1}{30} - \frac{1}{42} - \frac{1}{56} - \frac{1}{72}.$$

14. 计算（能用简便方法计算的尽量用简便方法）：

$$(1) -9 + 6 - (+11) - (-15); \quad (2) \left|\frac{1}{2}\right| - (-2.5) - (-1) - \left|0 - 2\frac{1}{2}\right|;$$

$$(3) \left(\frac{5}{6} + \frac{1}{3} - \frac{9}{14}\right) \div \left(-\frac{1}{42}\right); \quad (4) -1^2 + 8 \times \left(-\frac{1}{2}\right)^2 - 2 \div \frac{1}{5};$$

$$(5) -|-2^2| \times \left[\frac{5}{24} \div \left(-\frac{1}{4}\right) + 0 \times (-2023) + \frac{1}{6}\right] \div \frac{1}{3}; \quad (6) -\frac{1}{2} - \frac{1}{6} - \frac{1}{12} - \frac{1}{20} - \frac{1}{30} - \frac{1}{42} - \frac{1}{56} - \frac{1}{72}.$$

15. 用简便方法进行计算

$$(1) \left(\frac{7}{9} - \frac{5}{6} + \frac{7}{12} - 3\frac{1}{3}\right) \times (-36) \quad (2) 25 \times \frac{3}{4} + (-25) \times \frac{1}{2} + 25 \times \left(-\frac{1}{4}\right) \quad (3) 9\frac{1}{19} \times (-19)$$