

“算你狠”之计算周周练（六年级 第一周）

说明：本试卷为分为五个星级，最优为五星，老师根据学生答题情况评定星级

一、简单分数计算（本大题含 34 个小题，请写出必要步骤）

(1) $\frac{5}{8} + \frac{2}{5}$

(2) $\frac{9}{32} - \frac{3}{16}$

(3) $\frac{1}{2} + \frac{1}{3}$

(4) $\frac{5}{13} - \frac{1}{5}$

(5) $\frac{9}{17} - \frac{1}{3}$

(6) $\frac{2}{3} + \frac{5}{12}$

(7) $\frac{1}{2} + \frac{6}{7}$

(8) $\frac{8}{15} - \frac{1}{3}$

(9) $3 + \frac{1}{3}$

(10) $5 - \frac{2}{8}$

(11) $\frac{9}{11} + \frac{11}{9}$

(12) $\frac{8}{3} - \frac{3}{8}$

(13) $\frac{3}{7} + 2\frac{5}{14}$

(14) $2\frac{3}{5} - \frac{1}{15}$

(15) $\frac{5}{9} + 5\frac{1}{4}$

(16) $3\frac{1}{2} + 2\frac{1}{3}$

(17) $11\frac{5}{33} - \frac{6}{11}$

(18) $15\frac{5}{7} - 21\frac{16}{35}$

(19) $2\frac{2}{3} - 1\frac{5}{12}$

(20) $7\frac{1}{2} + 2\frac{1}{7} + 3\frac{3}{14}$

(21) $\frac{8}{15} + 3\frac{3}{4} - 2\frac{13}{60}$

(22) $\frac{5}{9} \times \frac{4}{7}$

(23) $\frac{5}{13} \times \frac{11}{15}$

(24) $\frac{3}{8} \times \frac{4}{9}$

(25) $\frac{7}{13} \times \frac{26}{27} \times \frac{9}{14}$

(26) $\frac{9}{16} \div \frac{3}{4}$

(27) $2\frac{2}{3} \times 9 \times 1\frac{5}{12}$

(28) $7\frac{1}{2} \div 2\frac{1}{7} \div 3\frac{3}{4}$

(29) $10 \div \left(\frac{1}{2} - \frac{1}{5} + \frac{1}{10} \right)$

(30) $\frac{5}{9} \div \frac{3}{2} - \frac{7}{18} \times \frac{3}{4}$

$$(31) \frac{5}{6} \times 0.2 + \frac{12}{13} \div 6$$

$$(32) 5\frac{9}{14} \times \frac{3}{5} + 0.6 \times \frac{5}{14}$$

$$(33) \frac{2}{15} \div \left(1.1 - \frac{3}{4}\right) + \frac{1}{5} \times \frac{3}{5}$$

$$(34) 1\frac{4}{7} \times \left(1 \div \frac{4}{7} - 1\frac{4}{7}\right) \div 1\frac{4}{7}$$

二、连锁约分计算 (本大题含 8 个小题, 请写出必要步骤)

$$(35) \frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \frac{4}{5}$$

$$(36) \frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \cdots \times \frac{9}{10}$$

$$(37) \frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \cdots \times \frac{99}{100}$$

$$(38) \frac{1}{3} \times \frac{3}{5} \times \frac{5}{7} \times \cdots \times \frac{97}{99}$$

$$(39) \frac{3}{7} \times \frac{7}{11} \times \frac{11}{15} \times \cdots \times \frac{95}{99}$$

$$(40) \left(1 - \frac{1}{2}\right) \times \left(1 - \frac{1}{3}\right) \times \cdots \times \left(1 - \frac{1}{100}\right)$$

$$(41) \left(1 + \frac{1}{2}\right) \times \left(1 + \frac{1}{3}\right) \times \cdots \times \left(1 + \frac{1}{100}\right) \quad (42) 2008 \times \left(1 - \frac{1}{2}\right) \times \left(1 - \frac{1}{3}\right) \times \cdots \times \left(1 - \frac{1}{2008}\right)$$

三、分数裂项计算 (本大题含 8 个小题, 请写出必要步骤)

$$(43) \frac{1}{1 \times 2} \times \frac{1}{2 \times 3} \times \frac{1}{3 \times 4} \times \frac{1}{4 \times 5}$$

$$(44) \frac{1}{1 \times 2} \times \frac{1}{2 \times 3} \times \cdots \times \frac{1}{99 \times 100}$$

$$(45) \frac{1}{7 \times 8} \times \frac{1}{8 \times 9} \times \cdots \times \frac{1}{90 \times 91}$$

$$(46) \frac{2}{3 \times 5} \times \frac{2}{5 \times 7} \times \cdots \times \frac{2}{37 \times 39}$$

$$(47) \frac{3}{2 \times 5} \times \frac{3}{5 \times 8} \times \cdots \times \frac{3}{92 \times 95}$$

$$(48) \frac{2}{3 \times 5} \times \frac{4}{5 \times 9} \times \frac{7}{9 \times 16} \times \frac{9}{16 \times 25}$$

$$(49) \frac{1}{3 \times 5} \times \frac{1}{5 \times 7} \times \cdots \times \frac{1}{55 \times 57}$$

$$(50) \frac{1}{2 \times 5} \times \frac{1}{5 \times 8} \times \cdots \times \frac{1}{29 \times 31}$$