

六年级“算你狠”之计算周周练（第一周）

（解析）

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

评星项	正确率（共四星）	书写（共一星）	总评
得分			

一、简单分数计算（本大题含 34 个小题，请写出必要步骤）

(1) $\frac{41}{40}$

(2) $\frac{3}{32}$

(3) $\frac{5}{6}$

(4) $\frac{12}{65}$

(5) $\frac{10}{51}$

(6) $\frac{13}{12}$

(7) $\frac{19}{14}$

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

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

(10) $4\frac{3}{4}$

(11) $\frac{202}{99}$

(12) $2\frac{7}{24}$

(13) $2\frac{11}{14}$

(14) $2\frac{8}{15}$

(15) $5\frac{29}{36}$

(16) $5\frac{5}{6}$

(17) $10\frac{20}{33}$

(18) $5\frac{26}{35}$

(19) $1\frac{1}{4}$

(20) $12\frac{6}{7}$

(21) $2\frac{1}{15}$

(22) $\frac{20}{63}$

(23) $\frac{11}{39}$

(24) $\frac{1}{6}$

(25) $\frac{1}{3}$

(26) $\frac{3}{4}$

(27) 34

(28) $\frac{14}{15}$

(29) 25

(30) $\frac{17}{216}$

(31) $\frac{25}{78}$

(32) $\frac{18}{5}$

(33) $\frac{263}{525}$

(34) $\frac{5}{28}$

二、连锁约分计算 (本大题含 8 个小题, 请写出必要步骤)

(35) $\frac{1}{5}$

(36) $\frac{1}{10}$

(37) $\frac{1}{100}$

(38) $\frac{1}{99}$

(39) $\frac{1}{33}$

(40) $\frac{1}{100}$

(41) $\frac{101}{2}$

(42) 1

三、分数裂项计算 (本大题含 8 个小题, 请写出必要步骤)

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

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

(45) $\frac{1}{7 \times 8} + \frac{1}{8 \times 9} + \cdots + \frac{1}{90 \times 91} = \frac{1}{7} - \frac{1}{8} + \frac{1}{8} - \frac{1}{9} + \cdots + \frac{1}{90} - \frac{1}{91} = \frac{1}{7} - \frac{1}{91} = \frac{12}{91}$

(46) $\frac{2}{3 \times 5} + \frac{2}{5 \times 7} + \cdots + \frac{2}{37 \times 39} = \frac{1}{3} - \frac{1}{5} + \frac{1}{5} - \frac{1}{7} + \cdots + \frac{1}{37} - \frac{1}{39} = \frac{1}{3} - \frac{1}{39} = \frac{4}{13}$

(47) $\frac{3}{2 \times 5} + \frac{3}{5 \times 8} + \cdots + \frac{3}{92 \times 95} = \frac{1}{2} - \frac{1}{5} + \frac{1}{5} - \frac{1}{8} + \cdots + \frac{1}{92} - \frac{1}{95} = \frac{1}{2} - \frac{1}{95} = \frac{93}{190}$

(48) $\frac{2}{3 \times 5} + \frac{4}{5 \times 9} + \frac{7}{9 \times 16} + \frac{9}{16 \times 25} = \frac{1}{3} - \frac{1}{5} + \frac{1}{5} - \frac{1}{9} + \frac{1}{9} - \frac{1}{16} + \frac{1}{16} - \frac{1}{25} = \frac{1}{3} - \frac{1}{25} = \frac{22}{75}$

(49) $\frac{1}{3 \times 5} + \frac{1}{5 \times 7} + \cdots + \frac{1}{55 \times 57} = \frac{1}{2} \times (\frac{1}{3} - \frac{1}{5} + \frac{1}{5} - \frac{1}{7} + \cdots + \frac{1}{55} - \frac{1}{57}) = \frac{1}{2} \times (\frac{1}{3} - \frac{1}{57}) = \frac{3}{19}$

(50) $\frac{1}{2 \times 5} + \frac{1}{5 \times 8} + \frac{1}{8 \times 11} + \cdots + \frac{1}{29 \times 32} = \frac{1}{3} \times (\frac{1}{2} - \frac{1}{5} + \frac{1}{5} - \frac{1}{8} + \frac{1}{8} - \frac{1}{11} + \cdots + \frac{1}{29} - \frac{1}{32}) = \frac{5}{32}$