



计算超市

计算能力是数学学习中一项基本能力，是学好数学和其他学科的重要基础。扎实的计算可以提升孩子的专注力及数学学习的自信心，同时计算贯穿数学学习的全过程。

“天下武功，唯快不破！”计算同样追求一个“快”字！计算速度的提升，能够大大缩短孩子的解题时间，当然，只求“快”是万万不够的，算的快却总出错，没有任何意义，唯有又快又准，才能问鼎计算高峰！

回想这些年你做错过的计算题，为什么错呢？大量的回答可以归结为两点：

1. 粗心！粗心！太粗心了！

抄错数、看串行、忘了进退位，点错了小数点……明明会算的偏偏算错，根本原因在于——注意力不集中！关于专注力的训练网上有很多经验贴，这里推荐“舒尔特表”，“舒尔特表”可以通过动态的练习锻炼视神经末梢，培养注意力的集中、分配、控制能力。

2. 基本功不扎实呗！

说白了，就是没能很好的掌握计算方法和技巧！乘法竖式怎么列？积与商怎么对位？四则混合运算先算什么后算什么？方程到底怎么解？特别是以后学习了分数计算，需要学会的方法和技巧就更多了！

计算方法，也是计算的基本功。除了在学习之初就要理解透彻之外，还要坚持不断的练习与巩固，一是避免遗忘，二是增加熟练度，俗话说“熟能生巧”，练得多了，方法自然就领悟了。

计算技巧，指的就是我们在课堂上学习过的各种巧算技巧。复杂的计算题，通过巧算可以变得无比简单，不仅降低了计算量，提高了准确率，还能提高计算速度，可谓一举多得！

练习1

1 约分

$$\frac{15}{21} =$$

$$\frac{21}{24} =$$

$$\frac{18}{28} =$$

$$\frac{15}{18} =$$

$$\frac{8}{26} =$$

$$\frac{12}{14} =$$

2 脱式计算

$$\frac{3}{5} - \frac{1}{2} + \frac{1}{4}$$

$$\frac{7}{8} - \frac{1}{5} + \frac{4}{5}$$

$$\frac{5}{8} - \frac{1}{2} + \frac{2}{3}$$

$$\frac{1}{3} \div \frac{1}{2} \times \frac{1}{4}$$

$$\frac{1}{2} \div \frac{5}{6} \times \frac{5}{7}$$

$$\frac{3}{4} \div \frac{1}{8} \times \frac{7}{9}$$

3 整数方程

$$31 + 26x = 43 - 25x$$

$$41x - 3 = 26 + 12x$$

练习2

1 约分

$$\frac{22}{30} =$$

$$\frac{10}{15} =$$

$$\frac{8}{26} =$$

$$\frac{5}{30} =$$

$$\frac{14}{21} =$$

$$\frac{4}{22} =$$

2 脱式计算

$$\frac{8}{9} - \frac{4}{5} + \frac{1}{3}$$

$$\frac{1}{2} + \frac{1}{3} - \frac{2}{5}$$

$$\frac{3}{4} + \frac{1}{9} - \frac{2}{3}$$

$$\frac{1}{5} \times \frac{3}{10} \div \frac{7}{10}$$

$$\frac{5}{6} \div \frac{3}{10} \times \frac{3}{5}$$

$$\frac{3}{8} \div \frac{1}{4} \times \frac{2}{3}$$

3 整数方程

$$27 - 50x = 10x + 9$$

$$50 - 20x = 24x + 8$$

练习3

1 约分

$$\frac{7}{21} =$$

$$\frac{9}{15} =$$

$$\frac{14}{26} =$$

$$\frac{25}{30} =$$

$$\frac{5}{15} =$$

$$\frac{9}{12} =$$

2 脱式计算

$$\frac{5}{9} + \frac{1}{9} - \frac{3}{10}$$

$$\frac{1}{2} + \frac{2}{3} - \frac{1}{3}$$

$$\frac{5}{6} - \frac{1}{2} + \frac{2}{5}$$

$$\frac{2}{5} \div \frac{4}{5} \times \frac{7}{9}$$

$$\frac{3}{4} \times \frac{1}{7} \div \frac{1}{2}$$

$$\frac{3}{8} \times \frac{3}{5} \div \frac{1}{2}$$

3 整数方程

$$31 + 29x = 35x - 11$$

$$23 + 39x = 47x - 19$$

练习4

1 约分

$$\frac{7}{14} =$$

$$\frac{5}{20} =$$

$$\frac{10}{16} =$$

$$\frac{21}{24} =$$

$$\frac{3}{27} =$$

$$\frac{4}{14} =$$

2 脱式计算

$$\frac{3}{5} - \frac{1}{2} + \frac{3}{8}$$

$$\frac{7}{8} + \frac{4}{7} - \frac{3}{4}$$

$$\frac{5}{8} + \frac{3}{7} - \frac{1}{7}$$

$$\frac{3}{4} \div \frac{7}{8} \times \frac{1}{9}$$

$$\frac{7}{8} \div \frac{2}{3} \times \frac{8}{9}$$

$$\frac{1}{4} \times \frac{3}{5} \div \frac{3}{10}$$

3 整数方程

$$35 - 26x = 9x + 30$$

$$25 - 11x = 4x + 11$$

1 约分

$$\frac{5}{10} =$$

$$\frac{15}{24} =$$

$$\frac{3}{9} =$$

$$\frac{7}{14} =$$

$$\frac{18}{20} =$$

$$\frac{9}{30} =$$

2 脱式计算

$$\frac{1}{2} - \frac{1}{9} + \frac{2}{3}$$

$$\frac{7}{8} - \frac{1}{10} + \frac{7}{8}$$

$$\frac{1}{2} + \frac{1}{7} - \frac{2}{5}$$

$$\frac{2}{9} \times \frac{1}{6} \div \frac{4}{9}$$

$$\frac{3}{10} \times \frac{1}{2} \div \frac{1}{4}$$

$$\frac{3}{8} \div \frac{1}{2} \times \frac{1}{10}$$

3 整数方程

$$4 + 28x = 43x - 10$$

$$34x - 28 = 36 + 6x$$

练习6

1 约分

$$\frac{15}{21} =$$

$$\frac{24}{27} =$$

$$\frac{6}{14} =$$

$$\frac{6}{8} =$$

$$\frac{4}{14} =$$

$$\frac{6}{16} =$$

2 脱式计算

$$\frac{1}{2} + \frac{5}{8} - \frac{1}{4}$$

$$\frac{1}{3} + \frac{3}{10} - \frac{1}{6}$$

$$\frac{4}{7} + \frac{3}{8} - \frac{1}{2}$$

$$\frac{1}{2} \times \frac{1}{3} \div \frac{3}{10}$$

$$\frac{1}{10} \div \frac{1}{4} \times \frac{3}{7}$$

$$\frac{4}{7} \div \frac{1}{2} \times \frac{1}{3}$$

3 整数方程

$$6 + 2x = 17 - 4x$$

$$31 + 40x = 38 - 16x$$

1 约分

$$\frac{4}{18} =$$

$$\frac{24}{27} =$$

$$\frac{4}{26} =$$

$$\frac{7}{28} =$$

$$\frac{8}{18} =$$

$$\frac{10}{25} =$$

2 脱式计算

$$\frac{5}{7} - \frac{1}{4} + \frac{7}{8}$$

$$\frac{3}{5} + \frac{4}{5} - \frac{1}{2}$$

$$\frac{2}{5} + \frac{4}{9} - \frac{1}{3}$$

$$\frac{1}{4} \times \frac{2}{3} \div \frac{1}{2}$$

$$\frac{5}{7} \times \frac{1}{3} \div \frac{1}{6}$$

$$\frac{2}{3} \times \frac{3}{4} \div \frac{1}{6}$$

3 整数方程

$$27 - 40x = 16x + 6$$

$$40x - 23 = 34 + 25x$$

练习8

1 约分

$$\frac{7}{14} =$$

$$\frac{15}{20} =$$

$$\frac{12}{22} =$$

$$\frac{12}{21} =$$

$$\frac{4}{14} =$$

$$\frac{20}{25} =$$

2 脱式计算

$$\frac{1}{2} - \frac{1}{4} + \frac{5}{6}$$

$$\frac{2}{3} + \frac{3}{10} - \frac{1}{2}$$

$$\frac{9}{10} + \frac{4}{5} - \frac{1}{4}$$

$$\frac{3}{4} \times \frac{2}{5} \div \frac{1}{2}$$

$$\frac{1}{4} \div \frac{3}{8} \times \frac{9}{10}$$

$$\frac{3}{10} \div \frac{1}{2} \times \frac{2}{3}$$

3 整数方程

$$36 + 3x = 48 - 41x$$

$$29 - 47x = 40x + 23$$

1 约分

$$\frac{3}{6} =$$

$$\frac{22}{24} =$$

$$\frac{55}{20} =$$

$$\frac{7}{84} =$$

$$\frac{18}{28} =$$

$$\frac{9}{15} =$$

2 脱式计算

$$\frac{3}{4} - \frac{2}{9} + \frac{1}{8}$$

$$\frac{1}{2} - \frac{3}{10} + \frac{1}{10}$$

$$\frac{1}{5} + \frac{1}{3} - \frac{1}{9}$$

$$\frac{1}{3} \times \frac{7}{8} \div \frac{5}{6}$$

$$\frac{1}{2} \div \frac{4}{5} \times \frac{4}{9}$$

$$\frac{1}{2} \times \frac{4}{7} \div \frac{3}{10}$$

3 整数方程

$$13 + 41x = 50x - 41$$

$$7 - 32x = 48x + 3$$

练习10

1 约分

$$\frac{2}{16} =$$

$$\frac{6}{28} =$$

$$\frac{14}{21} =$$

$$\frac{10}{22} =$$

$$\frac{15}{27} =$$

$$\frac{6}{21} =$$

2 脱式计算

$$\frac{7}{8} + \frac{4}{5} - \frac{2}{5}$$

$$\frac{2}{3} - \frac{2}{5} + \frac{2}{3}$$

$$\frac{6}{7} - \frac{2}{9} + \frac{1}{3}$$

$$\frac{1}{2} \div \frac{2}{5} \times \frac{1}{9}$$

$$\frac{1}{6} \times \frac{3}{4} \div \frac{5}{8}$$

$$\frac{5}{7} \div \frac{6}{7} \times \frac{1}{3}$$

3 整数方程

$$25 - 10x = 6x + 10$$

$$45x - 17 = 10 + 28x$$

1 约分

$$\frac{14}{16} =$$

$$\frac{18}{21} =$$

$$\frac{3}{18} =$$

$$\frac{27}{30} =$$

$$\frac{12}{27} =$$

$$\frac{12}{15} =$$

2 脱式计算

$$\frac{3}{5} - \frac{1}{7} + \frac{3}{5}$$

$$\frac{5}{8} + \frac{4}{5} - \frac{2}{5}$$

$$\frac{5}{6} + \frac{3}{4} - \frac{1}{2}$$

$$\frac{1}{3} \times \frac{5}{8} \div \frac{1}{2}$$

$$\frac{3}{4} \times \frac{2}{9} \div \frac{3}{7}$$

$$\frac{5}{8} \div \frac{1}{6} \times \frac{2}{3}$$

3 整数方程

$$9 + 7x = 14x - 19$$

$$4 + 37x = 40x - 18$$

练习12

1 约分

$$\frac{25}{30} =$$

$$\frac{4}{10} =$$

$$\frac{22}{24} =$$

$$\frac{11}{22} =$$

$$\frac{7}{14} =$$

$$\frac{9}{30} =$$

2 脱式计算

$$\frac{4}{7} + \frac{3}{8} - \frac{1}{2}$$

$$\frac{1}{2} - \frac{1}{9} + \frac{1}{3}$$

$$\frac{5}{6} + \frac{1}{3} - \frac{2}{9}$$

$$\frac{4}{7} \div \frac{1}{2} \times \frac{1}{3}$$

$$\frac{5}{9} \div \frac{7}{9} \times \frac{4}{5}$$

$$\frac{1}{2} \div \frac{1}{3} \times \frac{9}{10}$$

3 整数方程

$$24 + 48x = 50x - 14$$

$$21x - 42 = 21 + 15x$$

1 约分

$$\frac{21}{27} =$$

$$\frac{6}{20} =$$

$$\frac{24}{27} =$$

$$\frac{5}{25} =$$

$$\frac{9}{15} =$$

$$\frac{22}{28} =$$

2 脱式计算

$$\frac{3}{5} - \frac{4}{7} + \frac{4}{5}$$

$$\frac{1}{5} + \frac{1}{3} - \frac{1}{9}$$

$$\frac{2}{5} + \frac{1}{5} - \frac{1}{3}$$

$$\frac{1}{4} \div \frac{1}{2} \times \frac{2}{3}$$

$$\frac{1}{2} \times \frac{4}{7} \div \frac{3}{10}$$

$$\frac{5}{6} \div \frac{3}{10} \times \frac{3}{5}$$

3 整数方程

$$12 + 24x = 42 - 4x$$

$$1 + 12x = 4 - 30x$$

练习14

1 约分

$$\frac{20}{42} =$$

$$\frac{2}{8} =$$

$$\frac{14}{26} =$$

$$\frac{10}{15} =$$

$$\frac{16}{28} =$$

$$\frac{10}{26} =$$

2 脱式计算

$$\frac{7}{8} + \frac{5}{9} - \frac{1}{2}$$

$$\frac{1}{2} - \frac{1}{6} + \frac{4}{7}$$

$$\frac{3}{4} + \frac{1}{4} - \frac{5}{8}$$

$$\frac{2}{5} \div \frac{4}{5} \times \frac{4}{7}$$

$$\frac{2}{3} \times \frac{9}{10} \div \frac{1}{2}$$

$$\frac{1}{2} \times \frac{2}{3} \div \frac{3}{4}$$

3 整数方程

$$21 + 16x = 21x - 19$$

$$16 + 6x = 25x - 22$$

1 约分

$$\frac{10}{30} =$$

$$\frac{8}{18} =$$

$$\frac{2}{8} =$$

$$\frac{8}{10} =$$

$$\frac{18}{28} =$$

$$\frac{4}{22} =$$

2 脱式计算

$$\frac{7}{10} - \frac{1}{2} + \frac{1}{5}$$

$$\frac{7}{8} + \frac{3}{4} - \frac{1}{3}$$

$$\frac{1}{2} - \frac{1}{4} + \frac{2}{9}$$

$$\frac{1}{9} \times \frac{7}{10} \div \frac{3}{5}$$

$$\frac{3}{5} \times \frac{1}{2} \div \frac{1}{3}$$

$$\frac{1}{3} \times \frac{3}{4} \div \frac{7}{8}$$

3 整数方程

$$10 + 28x = 16 - 23x$$

$$33 + 35x = 37 - 37x$$

练习16

1 约分

$$\frac{8}{36} =$$

$$\frac{8}{20} =$$

$$\frac{12}{24} =$$

$$\frac{30}{78} =$$

$$\frac{24}{32} =$$

$$\frac{32}{40} =$$

2 脱式计算

$$\frac{8}{11} + 1\frac{5}{11} - \frac{1}{2}$$

$$\frac{4}{5} + \frac{1}{2} - \frac{3}{5}$$

$$\frac{11}{15} + \frac{2}{3} - \frac{3}{5}$$

$$\frac{1}{11} \div \frac{3}{7} \times \frac{3}{4}$$

$$\frac{4}{7} \div \frac{11}{14} \times \frac{2}{5}$$

$$\frac{2}{3} \times \frac{5}{14} \div \frac{7}{12}$$

3 整数方程

$$3 + 6(x + 3) = 30 - 42x$$

$$22(x + 1) = 28 - 28x$$

1 约分

$$\frac{56}{64} =$$

$$\frac{60}{64} =$$

$$\frac{27}{63} =$$

$$\frac{27}{72} =$$

$$\frac{30}{75} =$$

$$\frac{45}{60} =$$

2 脱式计算

$$\frac{13}{20} + \frac{3}{4} - \frac{1}{5}$$

$$\frac{11}{16} + \frac{1}{6} - \frac{5}{16}$$

$$\frac{5}{8} - \frac{9}{16} + \frac{1}{2}$$

$$\frac{2}{11} \times \frac{15}{16} \div \frac{1}{2}$$

$$\frac{1}{15} \times \frac{1}{2} \div \frac{3}{14}$$

$$\frac{8}{15} \div \frac{1}{5} \times \frac{4}{9}$$

3 整数方程

$$8(x-1) + 31 = 41 + 6x$$

$$10 + 8(x+2) = 44 - 20x$$

练习18

1 约分

$$\frac{45}{63} =$$

$$\frac{48}{60} =$$

$$\frac{28}{42} =$$

$$\frac{54}{78} =$$

$$\frac{44}{48} =$$

$$\frac{72}{76} =$$

2 脱式计算

$$\frac{17}{20} - \frac{5}{8} + \frac{2}{5}$$

$$\frac{7}{10} + 1\frac{11}{18} - \frac{1}{2}$$

$$\frac{11}{14} - \frac{1}{2} + \frac{4}{5}$$

$$\frac{11}{12} \div \frac{1}{6} \times \frac{1}{2}$$

$$\frac{11}{15} \times \frac{5}{6} \div \frac{1}{3}$$

$$\frac{11}{16} \times \frac{2}{3} \div \frac{1}{2}$$

3 整数方程

$$3 + 3(x + 3) = 35 - 23x$$

$$2(x + 5) = 14 - 4x$$

1 约分

$$\frac{36}{44} =$$

$$\frac{36}{54} =$$

$$\frac{32}{60} =$$

$$\frac{45}{63} =$$

$$\frac{36}{48} =$$

$$\frac{32}{40} =$$

2 脱式计算

$$\frac{13}{18} - \frac{5}{12} + \frac{4}{9}$$

$$\frac{7}{12} + \frac{17}{18} - \frac{1}{3}$$

$$\frac{13}{15} - \frac{3}{5} + \frac{7}{9}$$

$$\frac{1}{12} \times \frac{1}{2} \div \frac{7}{8}$$

$$\frac{8}{11} \times \frac{3}{5} \div \frac{4}{15}$$

$$\frac{2}{3} \div \frac{5}{6} \times \frac{11}{12}$$

3 整数方程

$$2(x+19) = 46 - 5x$$

$$6 + 2(x+5) = 46 - 48x$$

练习20

1 约分

$$\frac{36}{40} =$$

$$\frac{12}{72} =$$

$$\frac{12}{60} =$$

$$\frac{18}{36} =$$

$$\frac{30}{48} =$$

$$\frac{24}{64} =$$

2 脱式计算

$$\frac{3}{4} - \frac{3}{5} + \frac{5}{12}$$

$$\frac{7}{8} - \frac{7}{18} + \frac{1}{4}$$

$$\frac{5}{16} - \frac{1}{4} + \frac{1}{6}$$

$$\frac{5}{9} \div \frac{5}{6} \times \frac{1}{15}$$

$$\frac{1}{9} \times \frac{8}{15} \div 1\frac{7}{9}$$

$$\frac{6}{7} \div \frac{9}{14} \times \frac{3}{10}$$

3 整数方程

$$15(x+1) = 19 - 35x$$

$$10(x-3) + 10 = 24 + 4x$$

1 约分

$$\frac{30}{78} =$$

$$\frac{18}{54} =$$

$$\frac{45}{60} =$$

$$\frac{54}{72} =$$

$$\frac{30}{54} =$$

$$\frac{8}{72} =$$

2 脱式计算

$$\frac{13}{14} + 3\frac{1}{9} - \frac{5}{14}$$

$$\frac{4}{5} + \frac{1}{2} - \frac{13}{18}$$

$$\frac{5}{9} + \frac{7}{10} - \frac{2}{5}$$

$$\frac{1}{11} \div \frac{7}{11} \times \frac{9}{10}$$

$$\frac{1}{7} \div \frac{1}{12} \times \frac{4}{5}$$

$$\frac{4}{9} \div \frac{11}{18} \times \frac{3}{8}$$

3 整数方程

$$3(x-6)+46=25+13x$$

$$16+2(x+7)=47-2x$$

练习22

1 约分

$$\frac{44}{68} =$$

$$\frac{54}{63} =$$

$$\frac{48}{78} =$$

$$\frac{60}{72} =$$

$$\frac{12}{54} =$$

$$\frac{9}{45} =$$

2 脱式计算

$$\frac{11}{14} - \frac{1}{2} + \frac{2}{3}$$

$$\frac{15}{16} + \frac{1}{2} - \frac{2}{3}$$

$$\frac{2}{3} - \frac{1}{6} + \frac{13}{18}$$

$$\frac{1}{3} \div \frac{11}{5} \times \frac{1}{20}$$

$$2\frac{1}{3} \div \frac{7}{12} \times \frac{6}{7}$$

$$\frac{19}{20} \times \frac{3}{7} \div \frac{3}{10}$$

3 整数方程

$$6(x+1) = 19 - 11x$$

$$15 + 9(x+2) = 40 - 40x$$

1 约分

$$\frac{60}{78} =$$

$$\frac{54}{63} =$$

$$\frac{27}{36} =$$

$$\frac{30}{75} =$$

$$\frac{6}{66} =$$

$$\frac{45}{75} =$$

2 脱式计算

$$\frac{4}{7} + \frac{9}{14} - \frac{5}{21}$$

$$\frac{1}{2} - \frac{3}{16} + \frac{1}{5}$$

$$\frac{1}{2} + \frac{1}{5} - \frac{1}{20}$$

$$\frac{5}{11} \div \frac{1}{9} \times \frac{1}{2}$$

$$\frac{6}{7} \div \frac{18}{7} \times \frac{1}{6}$$

$$\frac{3}{17} \div \frac{8}{3} \times \frac{8}{9}$$

3 整数方程

$$12 + 4(x + 5) = 41 - 8x$$

$$4(x + 6) = 43 - 21x$$

练习24

1 约分

$$\frac{24}{60} =$$

$$\frac{36}{42} =$$

$$\frac{24}{54} =$$

$$\frac{36}{63} =$$

$$\frac{18}{45} =$$

$$\frac{30}{70} =$$

2 脱式计算

$$\frac{1}{2} + \frac{7}{11} - \frac{1}{4}$$

$$\frac{4}{9} + \frac{1}{6} - \frac{1}{3}$$

$$\frac{3}{4} - \frac{2}{3} + \frac{4}{7}$$

$$\frac{3}{14} \times \frac{2}{3} \div \frac{1}{2}$$

$$2\frac{2}{5} \div \frac{1}{2} \times \frac{7}{9}$$

$$\frac{7}{18} \div \frac{1}{4} \times \frac{1}{3}$$

3 整数方程

$$13 + 24(x+1) = 46 - 33x$$

$$7 + 9(x+1) = 27 - 18x$$

1 约分

$$\frac{9}{36} =$$

$$\frac{15}{30} =$$

$$\frac{45}{63} =$$

$$\frac{54}{72} =$$

$$\frac{42}{66} =$$

$$\frac{16}{72} =$$

2 脱式计算

$$\frac{3}{4} + \frac{11}{12} - \frac{1}{16}$$

$$\frac{3}{4} - \frac{2}{3} + \frac{19}{20}$$

$$\frac{7}{12} + \frac{1}{8} - \frac{1}{2}$$

$$\frac{11}{20} \times 2\frac{7}{10} \div \frac{1}{4}$$

$$\frac{1}{12} \times \frac{1}{5} \div \frac{4}{15}$$

$$\frac{2}{5} \times \frac{2}{3} \div \frac{1}{4}$$

3 整数方程

$$4(x+2)=15-13x$$

$$3(x+7)=39-11x$$

练习26

1 约分

$$\frac{18}{63} =$$

$$\frac{8}{24} =$$

$$\frac{20}{68} =$$

$$\frac{27}{72} =$$

$$\frac{36}{60} =$$

$$\frac{48}{66} =$$

2 脱式计算

$$\frac{3}{5} + \frac{7}{10} - \frac{2}{15}$$

$$\frac{2}{3} - \frac{1}{6} + \frac{8}{11}$$

$$\frac{3}{8} - \frac{2}{11} + \frac{3}{4}$$

$$\frac{7}{9} \times 2\frac{10}{11} \div \frac{1}{9}$$

$$\frac{4}{7} \times \frac{1}{16} \div \frac{5}{7}$$

$$\frac{11}{14} \div \frac{6}{7} \times \frac{1}{2}$$

3 整数方程

$$4(x+3)=17-17x$$

$$5(x+4)=32-24x$$

1 约分

$$\frac{56}{72} =$$

$$\frac{60}{80} =$$

$$\frac{60}{66} =$$

$$\frac{16}{32} =$$

$$\frac{45}{55} =$$

$$\frac{68}{72} =$$

2 脱式计算

$$\frac{8}{9} - \frac{7}{12} + \frac{1}{2}$$

$$\frac{1}{2} + 2\frac{4}{5} - \frac{1}{6}$$

$$\frac{7}{9} - \frac{1}{3} + \frac{1}{6}$$

$$\frac{3}{10} \times \frac{3}{4} \div \frac{3}{16}$$

$$\frac{1}{2} \div \frac{19}{20} \times \frac{4}{5}$$

$$\frac{5}{8} \div \frac{17}{20} \times \frac{2}{5}$$

3 整数方程

$$28 + 8(x + 1) = 43 - 27x$$

$$5 + 5(x + 4) = 46 - 18x$$

练习28

1 约分

$$\frac{36}{54} =$$

$$\frac{9}{63} =$$

$$\frac{18}{48} =$$

$$\frac{48}{60} =$$

$$\frac{9}{36} =$$

$$\frac{30}{45} =$$

2 脱式计算

$$\frac{7}{8} - \frac{1}{3} + 1\frac{13}{16}$$

$$\frac{3}{4} + \frac{7}{8} - \frac{1}{3}$$

$$\frac{7}{12} - \frac{1}{20} + \frac{2}{3}$$

$$\frac{3}{5} \div \frac{1}{2} \times \frac{7}{20}$$

$$\frac{2}{5} \div \frac{8}{15} \times \frac{5}{11}$$

$$2\frac{1}{4} \div \frac{1}{2} \times \frac{5}{16}$$

3 整数方程

$$2(x+4) = 16 - 5x$$

$$5(x+4) = 47 - 28x$$

1 约分

$$\frac{9}{57} =$$

$$\frac{15}{60} =$$

$$\frac{24}{32} =$$

$$\frac{8}{64} =$$

$$\frac{27}{45} =$$

$$\frac{36}{60} =$$

2 脱式计算

$$\frac{8}{15} - \frac{1}{3} + \frac{1}{12}$$

$$\frac{8}{9} - \frac{1}{9} + \frac{6}{7}$$

$$\frac{1}{2} + \frac{4}{5} - \frac{7}{16}$$

$$\frac{10}{11} \times \frac{3}{5} \div \frac{1}{4}$$

$$1\frac{4}{11} \div \frac{1}{9} \times \frac{1}{3}$$

$$\frac{17}{20} \div \frac{1}{2} \times \frac{2}{3}$$

3 整数方程

$$7(x+2) = 23 - 3x$$

$$5 + 2(x+9) = 30 - 26x$$

练习30

1 约分

$$\frac{36}{52} =$$

$$\frac{36}{54} =$$

$$\frac{30}{72} =$$

$$\frac{16}{28} =$$

$$\frac{15}{75} =$$

$$\frac{24}{32} =$$

2 脱式计算

$$\frac{3}{4} - \frac{1}{2} + \frac{3}{8}$$

$$\frac{7}{10} + \frac{1}{2} - \frac{3}{5}$$

$$\frac{14}{15} - \frac{1}{3} + \frac{1}{20}$$

$$\frac{7}{18} \div \frac{1}{2} \times \frac{1}{11}$$

$$\frac{3}{10} \times 1\frac{1}{5} \div \frac{1}{5}$$

$$\frac{3}{4} \times \frac{1}{3} \div \frac{13}{20}$$

3 整数方程

$$13(x-4)+36=41+4x$$

$$2(x+11)=50-5x$$

参考答案

练习 1

$$\frac{5}{7}$$

$$\frac{7}{8}$$

$$\frac{9}{14}$$

$$\frac{5}{6}$$

$$\frac{4}{13}$$

$$\frac{6}{7}$$

$$\frac{7}{20}$$

$$\frac{59}{40}$$

$$\frac{19}{24}$$

$$\frac{1}{6}$$

$$\frac{3}{7}$$

$$\frac{14}{3}$$

$$x = \frac{4}{17}$$

$$x = 1$$

练习 3

$$\frac{1}{3}$$

$$\frac{3}{5}$$

$$\frac{7}{13}$$

$$\frac{5}{6}$$

$$\frac{1}{3}$$

$$\frac{3}{4}$$

$$\frac{11}{30}$$

$$\frac{5}{6}$$

$$\frac{11}{15}$$

$$\frac{7}{18}$$

$$\frac{3}{14}$$

$$\frac{9}{20}$$

$$x = 7$$

$$x = \frac{21}{4}$$

练习 2

$$\frac{11}{15}$$

$$\frac{2}{3}$$

$$\frac{4}{13}$$

$$\frac{1}{6}$$

$$\frac{2}{3}$$

$$\frac{2}{11}$$

$$\frac{19}{45}$$

$$\frac{13}{30}$$

$$\frac{7}{36}$$

$$\frac{3}{35}$$

$$\frac{5}{3}$$

$$1$$

$$x = \frac{3}{10}$$

$$x = \frac{21}{22}$$

练习 4

$$\frac{1}{2}$$

$$\frac{1}{4}$$

$$\frac{5}{8}$$

$$\frac{7}{8}$$

$$\frac{1}{9}$$

$$\frac{2}{7}$$

$$\frac{19}{40}$$

$$\frac{39}{56}$$

$$\frac{51}{56}$$

$$\frac{2}{21}$$

$$\frac{7}{6}$$

$$\frac{1}{2}$$

$$x = \frac{1}{7}$$

$$x = \frac{14}{15}$$

练习 5

$\frac{1}{2}$

$\frac{5}{8}$

$\frac{1}{3}$

$\frac{1}{2}$

$\frac{9}{10}$

$\frac{3}{10}$

$\frac{19}{18}$

$\frac{33}{20}$

$\frac{17}{70}$

$\frac{1}{12}$

$\frac{3}{5}$

$\frac{3}{40}$

$x = \frac{14}{15}$

$x = \frac{16}{7}$

练习 7

$\frac{2}{9}$

$\frac{8}{9}$

$\frac{2}{13}$

$\frac{1}{4}$

$\frac{4}{9}$

$\frac{2}{5}$

$\frac{75}{56}$

$\frac{9}{10}$

$\frac{23}{45}$

$\frac{1}{3}$

$\frac{10}{7}$

3

$x = \frac{3}{8}$

$x = \frac{19}{5}$

练习 6

$\frac{5}{7}$

$\frac{8}{9}$

$\frac{3}{7}$

$\frac{3}{4}$

$\frac{2}{7}$

$\frac{3}{8}$

$\frac{7}{8}$

$\frac{7}{15}$

$\frac{25}{56}$

$\frac{5}{9}$

$\frac{6}{35}$

$\frac{8}{21}$

$x = \frac{11}{6}$

$x = \frac{1}{8}$

练习 8

$\frac{1}{2}$

$\frac{3}{4}$

$\frac{6}{11}$

$\frac{4}{7}$

$\frac{2}{7}$

$\frac{4}{5}$

$\frac{13}{12}$

$\frac{7}{15}$

$\frac{29}{20}$

$\frac{3}{5}$

$\frac{3}{5}$

$\frac{2}{5}$

$x = \frac{3}{11}$

$x = \frac{2}{29}$

练习 9

$$\frac{1}{2}$$

$$\frac{11}{12}$$

$$\frac{11}{4}$$

$$\frac{1}{12}$$

$$\frac{9}{14}$$

$$\frac{3}{5}$$

$$\frac{47}{72}$$

$$\frac{3}{10}$$

$$\frac{19}{45}$$

$$\frac{7}{20}$$

$$\frac{5}{18}$$

$$\frac{20}{21}$$

$$x = 6$$

$$x = \frac{1}{20}$$

练习 11

$$\frac{7}{8}$$

$$\frac{6}{7}$$

$$\frac{1}{6}$$

$$\frac{9}{10}$$

$$\frac{4}{9}$$

$$\frac{4}{5}$$

$$\frac{37}{35}$$

$$\frac{41}{40}$$

$$\frac{13}{12}$$

$$\frac{5}{12}$$

$$\frac{7}{18}$$

$$\frac{5}{2}$$

$$x = 4$$

$$x = \frac{22}{3}$$

练习 10

$$\frac{1}{8}$$

$$\frac{3}{14}$$

$$\frac{2}{3}$$

$$\frac{5}{11}$$

$$\frac{5}{9}$$

$$\frac{2}{7}$$

$$\frac{51}{40}$$

$$\frac{14}{15}$$

$$\frac{61}{63}$$

$$\frac{5}{36}$$

$$\frac{1}{5}$$

$$\frac{5}{18}$$

$$x = \frac{15}{16}$$

$$x = \frac{27}{17}$$

练习 12

$$\frac{5}{6}$$

$$\frac{2}{5}$$

$$\frac{11}{12}$$

$$\frac{1}{2}$$

$$\frac{1}{2}$$

$$\frac{3}{10}$$

$$\frac{25}{56}$$

$$\frac{13}{18}$$

$$\frac{17}{18}$$

$$\frac{8}{21}$$

$$\frac{4}{7}$$

$$\frac{27}{20}$$

$$x = 19$$

$$x = \frac{21}{2}$$

练习 13

$$\frac{7}{9}$$

$$\frac{3}{10}$$

$$\frac{8}{9}$$

$$\frac{1}{5}$$

$$\frac{3}{5}$$

$$\frac{11}{14}$$

$$\frac{29}{35}$$

$$\frac{19}{45}$$

$$\frac{4}{15}$$

$$\frac{1}{3}$$

$$\frac{20}{21}$$

$$\frac{5}{3}$$

$$x = \frac{15}{14}$$

$$x = \frac{1}{14}$$

练习 15

$$\frac{1}{3}$$

$$\frac{4}{9}$$

$$\frac{1}{4}$$

$$\frac{4}{5}$$

$$\frac{9}{14}$$

$$\frac{2}{11}$$

$$\frac{2}{5}$$

$$\frac{31}{24}$$

$$\frac{17}{36}$$

$$\frac{7}{54}$$

$$\frac{9}{10}$$

$$\frac{2}{7}$$

$$x = \frac{2}{17}$$

$$x = \frac{1}{18}$$

练习 14

$$\frac{10}{21}$$

$$\frac{1}{4}$$

$$\frac{7}{13}$$

$$\frac{2}{3}$$

$$\frac{4}{7}$$

$$\frac{5}{13}$$

$$\frac{67}{72}$$

$$\frac{19}{21}$$

$$\frac{3}{8}$$

$$\frac{2}{7}$$

$$\frac{6}{5}$$

$$\frac{4}{9}$$

$$x = 8$$

$$x = 2$$

练习 16

$$\frac{2}{9}$$

$$\frac{2}{5}$$

$$\frac{1}{2}$$

$$\frac{5}{13}$$

$$\frac{3}{4}$$

$$\frac{4}{5}$$

$$\frac{37}{22}$$

$$\frac{7}{10}$$

$$\frac{4}{5}$$

$$\frac{7}{44}$$

$$\frac{16}{55}$$

$$\frac{20}{49}$$

$$x = \frac{3}{16}$$

$$x = \frac{3}{25}$$

练习 17

$$\frac{7}{8}$$

$$\frac{15}{16}$$

$$\frac{3}{7}$$

$$\frac{3}{8}$$

$$\frac{2}{5}$$

$$\frac{3}{4}$$

$$\frac{6}{5}$$

$$\frac{13}{24}$$

$$\frac{9}{16}$$

$$\frac{15}{44}$$

$$\frac{7}{45}$$

$$\frac{32}{27}$$

$$x=9$$

$$x=\frac{9}{14}$$

练习 19

$$\frac{9}{11}$$

$$\frac{2}{3}$$

$$\frac{8}{15}$$

$$\frac{5}{7}$$

$$\frac{3}{4}$$

$$\frac{4}{5}$$

$$\frac{3}{4}$$

$$\frac{43}{36}$$

$$\frac{47}{45}$$

$$\frac{1}{21}$$

$$\frac{18}{11}$$

$$\frac{11}{15}$$

$$x=\frac{8}{7}$$

$$x=\frac{3}{5}$$

练习 18

$$\frac{5}{7}$$

$$\frac{4}{5}$$

$$\frac{2}{3}$$

$$\frac{9}{13}$$

$$\frac{11}{12}$$

$$\frac{18}{19}$$

$$\frac{5}{8}$$

$$\frac{163}{90}$$

$$\frac{38}{35}$$

$$\frac{11}{4}$$

$$\frac{11}{6}$$

$$\frac{11}{12}$$

$$x=\frac{23}{26}$$

$$x=\frac{2}{3}$$

练习 20

$$\frac{9}{10}$$

$$\frac{1}{6}$$

$$\frac{1}{5}$$

$$\frac{1}{2}$$

$$\frac{5}{8}$$

$$\frac{3}{8}$$

$$\frac{17}{30}$$

$$\frac{53}{72}$$

$$\frac{11}{48}$$

$$\frac{2}{45}$$

$$\frac{1}{30}$$

$$\frac{2}{5}$$

$$x=\frac{2}{25}$$

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练习 21

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$$\frac{1}{3}$$

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练习 23

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练习 22

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$$\frac{6}{7}$$

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练习 24

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练习 25

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$$\frac{77}{48}$$

$$\frac{31}{30}$$

$$\frac{5}{24}$$

$$\frac{297}{50}$$

$$\frac{1}{16}$$

$$\frac{16}{15}$$

$$x = \frac{7}{17}$$

$$x = \frac{9}{7}$$

练习 27

$$\frac{7}{9}$$

$$\frac{3}{4}$$

$$\frac{10}{11}$$

$$\frac{1}{2}$$

$$\frac{9}{11}$$

$$\frac{17}{18}$$

$$\frac{29}{36}$$

$$\frac{47}{15}$$

$$\frac{11}{18}$$

$$\frac{6}{5}$$

$$\frac{8}{19}$$

$$\frac{5}{17}$$

$$x = \frac{1}{5}$$

$$x = \frac{21}{23}$$

练习 26

$$\frac{2}{7}$$

$$\frac{1}{3}$$

$$\frac{5}{17}$$

$$\frac{3}{8}$$

$$\frac{3}{5}$$

$$\frac{8}{11}$$

$$\frac{7}{6}$$

$$\frac{27}{22}$$

$$\frac{83}{88}$$

$$\frac{224}{11}$$

$$\frac{1}{20}$$

$$\frac{11}{24}$$

$$x = \frac{5}{21}$$

$$x = \frac{12}{29}$$

练习 28

$$\frac{2}{3}$$

$$\frac{1}{7}$$

$$\frac{3}{8}$$

$$\frac{4}{5}$$

$$\frac{1}{4}$$

$$\frac{2}{3}$$

$$\frac{113}{48}$$

$$\frac{31}{24}$$

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$$\frac{21}{50}$$

$$\frac{15}{44}$$

$$\frac{45}{32}$$

$$x = \frac{8}{7}$$

$$x = \frac{9}{11}$$

练习 29

$$\frac{3}{19}$$

$$\frac{1}{4}$$

$$\frac{3}{4}$$

$$\frac{1}{8}$$

$$\frac{3}{5}$$

$$\frac{3}{5}$$

$$\frac{17}{60}$$

$$\frac{103}{63}$$

$$\frac{69}{80}$$

$$\frac{24}{11}$$

$$\frac{45}{11}$$

$$\frac{17}{15}$$

$$x = \frac{9}{10}$$

$$x = \frac{1}{4}$$

练习 30

$$\frac{9}{13}$$

$$\frac{2}{3}$$

$$\frac{5}{12}$$

$$\frac{4}{7}$$

$$\frac{1}{5}$$

$$\frac{3}{4}$$

$$\frac{5}{8}$$

$$\frac{3}{5}$$

$$\frac{13}{20}$$

$$\frac{7}{99}$$

$$\frac{9}{5}$$

$$\frac{5}{13}$$

$$x = \frac{19}{3}$$

$$x = 4$$