

计算 小超市

六年级

MCMXVI

MASSACHUSETTS INSTITUTE OF TECHNOLOGY



12
月

计算
小超市



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 口算

$6:8 = \underline{\quad} : \underline{\quad} \quad 12:15 = \underline{\quad} : \underline{\quad} \quad 30:72 = \underline{\quad} : \underline{\quad}$

$20:24 = \underline{\quad} : \underline{\quad} \quad 77:56 = \underline{\quad} : \underline{\quad} \quad 56:28 = \underline{\quad} : \underline{\quad}$

2 脱式

$$\frac{2}{9} \times \frac{3}{4} + \frac{5}{27} \times \frac{3}{4}$$

$$\left(\frac{3}{8} - \frac{3}{8}\right) \times \frac{6}{15}$$

$$\frac{5}{6} \times \frac{5}{9} + \frac{5}{9} \times \frac{1}{6}$$

$$\frac{6}{13} \times \frac{7}{5} - \frac{6}{13} \times \frac{2}{5}$$

3 方程

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

$$\frac{x-1}{4} = 2$$

$$12 = \frac{x-1}{4}$$

练习2

1 口算

$12:30 = \underline{\quad}:\underline{\quad}$

$120:32 = \underline{\quad}:\underline{\quad}$

$36:94 = \underline{\quad}:\underline{\quad}$

$57:95 = \underline{\quad}:\underline{\quad}$

$82:410 = \underline{\quad}:\underline{\quad}$

$63:117 = \underline{\quad}:\underline{\quad}$

2 脱式

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

$$\frac{7}{12} \times 6 - \frac{5}{12} \times 6$$

$$\left(\frac{8}{9} + \frac{4}{27}\right) \times 3 \times 9$$

$$\frac{7}{9} \div \frac{1}{9} - \frac{2}{9} \div \frac{1}{9}$$

3 方程

$$\frac{17-2x}{3} = 1$$

$$\frac{3x+1}{2} = 3$$

$$\frac{x-1}{2} = 6$$

练习3

1 口算

$48:28 = \underline{\quad}:\underline{\quad}$

$34:85 = \underline{\quad}:\underline{\quad}$

$74:111 = \underline{\quad}:\underline{\quad}$

$143:77 = \underline{\quad}:\underline{\quad}$

$14:91 = \underline{\quad}:\underline{\quad}$

$15:54 = \underline{\quad}:\underline{\quad}$

2 脱式

$37 \times \frac{3}{35}$

$\frac{6}{25} \times 24$

$\frac{7}{10} \times 101 - \frac{7}{10}$

$\frac{3}{5} \times 99 + \frac{3}{5}$

3 方程

$\frac{4-x}{3} = 1$

$\frac{3y-1}{4} = 5$

$\frac{x-4}{2} = 16$

练习4

1 口算

$320:100 = \underline{\quad} : \underline{\quad}$

$33:21 = \underline{\quad} : \underline{\quad}$

$54:36 = \underline{\quad} : \underline{\quad}$

$25:35 = \underline{\quad} : \underline{\quad}$

$126:32 = \underline{\quad} : \underline{\quad}$

$26:143 = \underline{\quad} : \underline{\quad}$

2 脱式

$$\frac{15}{21} \times \frac{3}{4} + \frac{10}{21} \times \frac{3}{4} - \frac{3}{4}$$

$$\left(\frac{5}{6} - \frac{5}{9}\right) \times \frac{18}{5}$$

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

$$\frac{3}{5} \times 153 - 0.6 \times 53$$

3 方程

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

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

$$\frac{5x-6}{3} = 8$$

练习5

1 口算

$45:75 = \underline{\quad}:\underline{\quad}$

$55:65 = \underline{\quad}:\underline{\quad}$

$216:126 = \underline{\quad}:\underline{\quad}$

$72:165 = \underline{\quad}:\underline{\quad}$

$94:235 = \underline{\quad}:\underline{\quad}$

$18:24 = \underline{\quad}:\underline{\quad}$

2 脱式

$$3\frac{3}{8} \times \frac{7}{11} + 3\frac{3}{8} \times \frac{4}{11}$$

$$\frac{5}{7} \times \frac{5}{8} + \frac{3}{8} \times \frac{5}{7}$$

$$\frac{5}{9} \div \frac{5}{12} + \frac{4}{9} \div \frac{5}{12}$$

$$\frac{3}{5} \times \left(20 + \frac{5}{6}\right)$$

3 方程

$$\frac{9+2x}{3} = 5$$

$$\frac{2x-4}{3} = 10$$

$$\frac{2x+4}{5} = 6$$

练习6

1 口算

$78:84 = \underline{\quad}:\underline{\quad}$

$28:54 = \underline{\quad}:\underline{\quad}$

$48:56 = \underline{\quad}:\underline{\quad}$

$27:162 = \underline{\quad}:\underline{\quad}$

$280:91 = \underline{\quad}:\underline{\quad}$

$30:135 = \underline{\quad}:\underline{\quad}$

2 脱式

$$\left(\frac{1}{6} + \frac{3}{4} - \frac{2}{3}\right) \times 12$$

$$45 \times \frac{43}{44}$$

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

$$\frac{8}{11} \times 72 + \frac{8}{11} \times 27$$

3 方程

$$\frac{5x-7}{6} = 3$$

$$\frac{6x-1}{3} = 1$$

$$\frac{x+4}{5} = 4$$

练习7

1 口算

$32:80 = \underline{\quad}:\underline{\quad}$

$72:32 = \underline{\quad}:\underline{\quad}$

$240:320 = \underline{\quad}:\underline{\quad}$

$33:132 = \underline{\quad}:\underline{\quad}$

$105:35 = \underline{\quad}:\underline{\quad}$

$350:42 = \underline{\quad}:\underline{\quad}$

2 脱式

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

$$\frac{12}{13} \times \frac{3}{7} + \frac{4}{7} \times \frac{12}{13} + \frac{12}{13}$$

$$\frac{8}{13} \div 7 + \frac{1}{7} \times \frac{5}{13}$$

$$\frac{7}{9} \div \frac{11}{5} + \frac{2}{9} \times \frac{5}{11}$$

3 方程

$$\frac{3x-1}{8} = 1$$

$$\frac{x+1}{5} = 3$$

$$\frac{15-x}{6} = 1$$

练习8

1 口算

$35:175 = \underline{\quad}:\underline{\quad}$

$144:36 = \underline{\quad}:\underline{\quad}$

$36:60 = \underline{\quad}:\underline{\quad}$

$111:74 = \underline{\quad}:\underline{\quad}$

$185:148 = \underline{\quad}:\underline{\quad}$

$38:57 = \underline{\quad}:\underline{\quad}$

2 脱式

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

$$\frac{3}{4} \times \frac{5}{7} \times \frac{4}{3} - \frac{1}{2}$$

$$\left(\frac{1}{2} - \frac{1}{6}\right) \times \frac{3}{5} \div \frac{1}{5}$$

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

3 方程

$$\frac{x+1}{6} = 4$$

$$\frac{x+5}{6} = x$$

$$\frac{4+2x}{3} = 4$$

练习9

1 口算

$40:65 = \underline{\quad}:\underline{\quad}$

$240:42 = \underline{\quad}:\underline{\quad}$

$44:84 = \underline{\quad}:\underline{\quad}$

$45:54 = \underline{\quad}:\underline{\quad}$

$48:84 = \underline{\quad}:\underline{\quad}$

$11:1111 = \underline{\quad}:\underline{\quad}$

2 脱式

$$\frac{4}{7} \times \frac{8}{9} + \frac{3}{7} \times \frac{8}{9}$$

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

$$\frac{34}{50} \times \frac{4}{7} - \frac{4}{7} \times \frac{9}{50}$$

$$\frac{3}{4} \times 56\frac{7}{8} + 44\frac{1}{8} \times \frac{3}{4} - \frac{3}{4}$$

3 方程

$$\frac{2x-1}{3} = 1$$

$$\frac{x-4}{3} = 1$$

$$\frac{5-3x}{2} = 1$$

练习 10

1 口算

$12:1224 = \underline{\quad}:\underline{\quad}$ $12:4824 = \underline{\quad}:\underline{\quad}$ $667:2001 = \underline{\quad}:\underline{\quad}$

$30:40:50 = \underline{\quad}:\underline{\quad}:\underline{\quad}$ $12:24:30 = \underline{\quad}:\underline{\quad}:\underline{\quad}$ $48:40:28 = \underline{\quad}:\underline{\quad}:\underline{\quad}$

2 脱式

$$\frac{11}{12} \div \frac{1}{8} + \frac{13}{12} \times 8$$

$$\left(\frac{3}{4} + \frac{3}{4} \times \frac{5}{6}\right) \times \frac{4}{3}$$

$$\frac{2}{5} \div \left(\frac{2}{5} + \frac{2}{5} \times \frac{3}{4}\right)$$

$$\left(\frac{1}{4} + \frac{1}{4} \times 99\right) \div \frac{25}{24}$$

3 方程

$$\frac{8x-20}{3} = 4$$

$$\frac{2x+1}{4} = 3$$

$$\frac{y+8}{2} = 7$$

练习11

1 口算

$15:30:50 = \underline{\quad}:\underline{\quad}:\underline{\quad} \quad 42:28:105 = \underline{\quad}:\underline{\quad}:\underline{\quad} \quad 63:126:72 = \underline{\quad}:\underline{\quad}:\underline{\quad}$

$24:44:68 = \underline{\quad}:\underline{\quad}:\underline{\quad} \quad 11:22:99 = \underline{\quad}:\underline{\quad}:\underline{\quad} \quad 21:48:60 = \underline{\quad}:\underline{\quad}:\underline{\quad}$

2 脱式

$36 \times \frac{34}{35}$

$32\frac{2}{5} \times \frac{5}{6}$

$\left(35 + \frac{5}{7}\right) \div 5$

$97 \times \frac{95}{96}$

3 方程

$\frac{20-x}{2} = 8$

$\frac{2x+4}{3} = 10$

$\frac{2x-5}{3} = 3$

练习 12

1 口算

$1.2:1.5 = \underline{\quad}:\underline{\quad}$

$2.5:0.35 = \underline{\quad}:\underline{\quad}$

$4.8:6 = \underline{\quad}:\underline{\quad}$

$1.4:6.3 = \underline{\quad}:\underline{\quad}$

$1.4:28 = \underline{\quad}:\underline{\quad}$

$1.4:3.5 = \underline{\quad}:\underline{\quad}$

2 脱式

$$\left(\frac{4}{7} + \frac{8}{9}\right) \times 7 \times 9$$

$$\frac{1}{3} \div \frac{6}{7} + \frac{2}{3} \div \frac{6}{7}$$

$$\frac{5}{8} \times \frac{2}{3} \times \frac{8}{15}$$

$$54 \times \left(\frac{8}{9} - \frac{5}{6}\right)$$

3 方程

$$\frac{5x-14}{6} = 1$$

$$\frac{4x+1}{5} = 2$$

$$\frac{3x-4}{8} = 1$$

1 口算

$1.5:3.6 = \underline{\quad}:\underline{\quad}$

$1.5:6.6 = \underline{\quad}:\underline{\quad}$

$1.5:1.05 = \underline{\quad}:\underline{\quad}$

$24:1.6 = \underline{\quad}:\underline{\quad}$

$3.6:1.6 = \underline{\quad}:\underline{\quad}$

$1.6:18 = \underline{\quad}:\underline{\quad}$

2 脱式

$$\frac{4}{25} \times 23 + \frac{4}{25} \times 77$$

$$\frac{3}{7} + \left(\frac{3}{7} + \frac{3}{14} \right) \times \frac{2}{3}$$

$$\frac{11}{12} \times \frac{1}{8} + \frac{13}{12} \div 8$$

$$\frac{1}{8} \times 16 - \frac{1}{8} \times 14 + \frac{1}{8} \times 70$$

3 方程

$$\frac{3x+5}{2} = 16$$

$$\frac{4x+1}{5} = 5$$

$$\frac{2x+1}{12} = 2$$

练习 14

1 口算

$1.8:54 = \underline{\quad}:\underline{\quad}$

$1.8:0.09 = \underline{\quad}:\underline{\quad}$

$0.9:0.099 = \underline{\quad}:\underline{\quad}$

$1.9:9 = \underline{\quad}:\underline{\quad}$

$0.57:19 = \underline{\quad}:\underline{\quad}$

$6.8:0.17 = \underline{\quad}:\underline{\quad}$

2 脱式

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

$$13 - 48 \times \left(\frac{1}{12} + \frac{1}{16} \right)$$

$$\frac{13}{12} \times \frac{3}{7} + \frac{4}{7} \times \frac{13}{12} + \frac{13}{12}$$

$$\frac{5}{9} \times 7 + \frac{5}{9} \times 11$$

3 方程

$$\frac{7x-1}{2} = 17$$

$$\frac{3x-5}{4} = 5$$

$$\frac{9x-5}{2} = 20$$

练习15

1 口算

$2:0.14 = \underline{\quad}:\underline{\quad}$

$21:14.7 = \underline{\quad}:\underline{\quad}$

$2.1:28 = \underline{\quad}:\underline{\quad}$

$24:2.8 = \underline{\quad}:\underline{\quad}$

$0.21:1.19 = \underline{\quad}:\underline{\quad}$

$2.2:1.111 = \underline{\quad}:\underline{\quad}$

2 脱式

$$5 - \frac{7}{8} - 0.125$$

$$\left(\frac{1}{2} + \frac{1}{3} + \frac{1}{4}\right) \times 24$$

$$\frac{4}{9} \times \frac{1}{6} + \frac{5}{9} \div 6$$

$$\left(\frac{7}{11} - \frac{3}{8}\right) \times 88$$

3 方程

$$\frac{x+4}{2} = 32$$

$$\frac{x}{5} = 6 - x$$

$$\frac{x+4}{3} = 2$$

练习 16

1 口算

$2.2:4.84 = \underline{\quad}:\underline{\quad}$

$88:0.22 = \underline{\quad}:\underline{\quad}$

$22:0.99 = \underline{\quad}:\underline{\quad}$

$0.23:1.15 = \underline{\quad}:\underline{\quad}$

$0.46:6.4 = \underline{\quad}:\underline{\quad}$

$9.2:0.69 = \underline{\quad}:\underline{\quad}$

2 脱式

$63 \times \frac{61}{62}$

$25\frac{3}{4} \times 4$

$\frac{3}{8} \times \frac{5}{11} + 0.375 \times 2\frac{6}{11} - 3 \div \frac{8}{3}$

$\left(\frac{5}{6} + \frac{3}{8}\right) \div \frac{1}{48}$

3 方程

$\frac{2x-1}{3} + 1 = 6$

$\frac{3x-1}{2} = 13$

$\frac{7x-1}{24} + 3 = 5$

练习17

1 口算

$0.42:2.4 = \underline{\quad}:\underline{\quad}$

$6.4:2.4 = \underline{\quad}:\underline{\quad}$

$0.96:2.4 = \underline{\quad}:\underline{\quad}$

$0.38:7.6 = \underline{\quad}:\underline{\quad}$

$0.92:0.23 = \underline{\quad}:\underline{\quad}$

$85:0.51 = \underline{\quad}:\underline{\quad}$

2 脱式

$101 \times \frac{4}{25}$

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

$\frac{7}{9} \div \frac{11}{5} + \frac{2}{9} \times \frac{5}{11}$

$\left(\frac{11}{12} - \frac{5}{6} + \frac{3}{4} - \frac{13}{24}\right) \div \frac{1}{24}$

3 方程

$\frac{x}{8} = \frac{3x+2}{25}$

$\frac{5x-2}{3} - 2 = 4$

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

练习 18

1 口算

$12.6:7 = \underline{\quad}:\underline{\quad}$

$12:7.2 = \underline{\quad}:\underline{\quad}$

$13.5:9.6 = \underline{\quad}:\underline{\quad}$

$8.4:21 = \underline{\quad}:\underline{\quad}$

$8.7:5.8 = \underline{\quad}:\underline{\quad}$

$8.8:16.5 = \underline{\quad}:\underline{\quad}$

2 脱式

$$\frac{5}{8} + \frac{5}{8} \times 15$$

$$\frac{1}{3} \times \frac{6}{7} + \frac{2}{3} \times \frac{6}{7}$$

$$\left(\frac{11}{12} + \frac{7}{18} + \frac{5}{24}\right) \div \frac{1}{72}$$

$$\frac{5}{7} + \frac{19}{25} \times 4 + \frac{21}{25} \times 19$$

3 方程

$$\frac{2x+8}{6} - 1 = 5$$

$$\frac{2x-7}{3} = 4$$

$$\frac{7+3x}{8} + 1 = 6$$

1 口算

$4.25:6.8 = \underline{\quad}:\underline{\quad}$

$6.66:7.4 = \underline{\quad}:\underline{\quad}$

$9.36:1.08 = \underline{\quad}:\underline{\quad}$

$12.3:16.4 = \underline{\quad}:\underline{\quad}$

$20.8:11.2 = \underline{\quad}:\underline{\quad}$

$17.6:14.3 = \underline{\quad}:\underline{\quad}$

2 脱式

$333\frac{1}{3} \times 3$

$18 \times \left(\frac{4}{9} + \frac{5}{6} \right)$

$\frac{2}{3} \times 7 + \frac{2}{3} \times 5$

$265 \div \frac{4}{3} + \frac{3}{4} \times 578 + 157 \div \frac{4}{3}$

3 方程

$\frac{2x-1}{3} - 6 = 1$

$\frac{2x-3}{5} - 4 = 1$

$\frac{x-5}{2} + 4 = 9$

练习20

1 口算

$3.23:3.4 = \underline{\quad}:\underline{\quad}$

$66.7:6.9 = \underline{\quad}:\underline{\quad}$

$3.66:73.2 = \underline{\quad}:\underline{\quad}$

$6.72:2.24 = \underline{\quad}:\underline{\quad}$

$6.7:33.5 = \underline{\quad}:\underline{\quad}$

$2.91:9.7 = \underline{\quad}:\underline{\quad}$

2 脱式

$$8 \times \frac{1}{5} - \frac{1}{5} \times 3$$

$$\left(99 + \frac{9}{10}\right) \div 9$$

$$\frac{2}{7} \times \frac{5}{11} + \frac{1}{7} \div \frac{11}{5} + \frac{5}{11} \div \frac{7}{4}$$

$$\left(\frac{5}{7} \times \frac{4}{7} + \frac{4}{7}\right) \div \frac{4}{7}$$

3 方程

$$\frac{3x+4}{3} + 2 = 8$$

$$\frac{7x+3}{24} + 2 = 3$$

$$\frac{3x+6}{2} - 5 = 7$$

1 口算

$$\frac{1}{2} : \frac{2}{3} = \text{——} : \text{——}$$

$$\frac{3}{4} : \frac{2}{5} = \text{——} : \text{——}$$

$$\frac{5}{7} : \frac{1}{6} = \text{——} : \text{——}$$

$$\frac{5}{12} : \frac{5}{8} = \text{——} : \text{——}$$

$$\frac{7}{13} : \frac{1}{4} = \text{——} : \text{——}$$

$$\frac{11}{15} : \frac{2}{7} = \text{——} : \text{——}$$

2 脱式

$$\left(\frac{2}{15} + \frac{3}{11}\right) \times 15 \times 11$$

$$38 \times \frac{19}{39}$$

$$\frac{9}{10} \times \frac{13}{17} + \frac{9}{10} \times \frac{4}{17}$$

$$2019 \frac{2019}{2020} \div 2019$$

3 方程

$$\frac{3x-25}{5} + 9 = 10$$

$$\frac{24-x}{4} + 3 = 7$$

$$\frac{x-4}{2} - 5 = 20$$

练习22

1 口算

$$\frac{1}{5}:\frac{2}{9} = \text{——}:\text{——}$$

$$\frac{2}{7}:\frac{4}{9} = \text{——}:\text{——}$$

$$\frac{13}{17}:\frac{5}{6} = \text{——}:\text{——}$$

$$\frac{1}{8}:\frac{4}{5} = \text{——}:\text{——}$$

$$\frac{7}{16}:\frac{3}{5} = \text{——}:\text{——}$$

$$\frac{11}{13}:\frac{5}{6} = \text{——}:\text{——}$$

2 脱式

$$\frac{11}{13} - \frac{11}{13} \times \frac{20}{33}$$

$$\frac{7}{25} \times 101 - \frac{7}{25}$$

$$\frac{5}{9} \times \frac{3}{4} + \frac{5}{9} \times \frac{1}{4}$$

$$\frac{4}{7} \times \frac{73}{109} + \frac{4}{7} \times \frac{36}{109}$$

3 方程

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

$$\frac{2x-5}{6} - 4 = 1$$

$$\frac{2x-1}{4} + 1 = 6$$

1 口算

$$\frac{1}{23} : \frac{2}{15} = \text{——} : \text{——}$$

$$\frac{1}{3} : \frac{32}{105} = \text{——} : \text{——}$$

$$\frac{15}{27} : \frac{2}{11} = \text{——} : \text{——}$$

$$\frac{5}{7} : \frac{7}{13} = \text{——} : \text{——}$$

$$\frac{7}{8} : \frac{3}{16} = \text{——} : \text{——}$$

$$\frac{4}{9} : \frac{4}{19} = \text{——} : \text{——}$$

2 脱式

$$63 \times \left(\frac{5}{9} + \frac{4}{21} - \frac{3}{7} \right)$$

$$\left(21 \times \frac{3}{7} + \frac{4}{7} \times 21 \right) \times \frac{1}{4}$$

$$\left(\frac{5}{6} + \frac{4}{5} \right) \times 30$$

$$\frac{1}{8} \times 58 + \frac{1}{8} \times 41 + \frac{1}{8}$$

3 方程

$$\frac{10+x}{15} - 2 = 1$$

$$\frac{3x+2}{5} + 1 = 6$$

$$\frac{x-4}{3} = \frac{7}{4}$$

练习24

1 口算

$$\frac{3}{5} \div \frac{3}{20} = \text{——} : \text{——}$$

$$\frac{4}{15} \div \frac{8}{25} = \text{——} : \text{——}$$

$$\frac{15}{33} \div \frac{10}{11} = \text{——} : \text{——}$$

$$\frac{7}{30} \div \frac{14}{15} = \text{——} : \text{——}$$

$$\frac{9}{13} \div \frac{18}{26} = \text{——} : \text{——}$$

$$\frac{11}{24} \div \frac{55}{72} = \text{——} : \text{——}$$

2 脱式

$$\frac{5}{6} \times \frac{6}{5} - \frac{9}{10} \div \frac{9}{5}$$

$$46 \times \frac{44}{45}$$

$$2008 \times \frac{2006}{2007}$$

$$1\frac{4}{17} \times \left(2\frac{2}{3} - \frac{3}{4}\right) + 15\frac{1}{12} \div \frac{17}{21}$$

3 方程

$$\frac{2x-1}{6} + 2 = 4$$

$$\frac{4x-15}{5} + 7 = 12$$

$$\frac{2x+4}{3} = 8$$

1 口算

$$\frac{7}{30} : \frac{14}{25} = \text{——} : \text{——}$$

$$\frac{7}{37} : \frac{35}{111} = \text{——} : \text{——}$$

$$\frac{5}{36} : \frac{2}{9} = \text{——} : \text{——}$$

$$\frac{31}{42} : \frac{2}{3} = \text{——} : \text{——}$$

$$\frac{1}{5} : \frac{32}{113} = \text{——} : \text{——}$$

$$\frac{49}{72} : \frac{7}{13} = \text{——} : \text{——}$$

2 脱式

$$33 \div \frac{5}{3} + \frac{3}{5} \times 44 + 24 \div \frac{5}{3} - 0.6$$

$$\frac{5}{9} \times \frac{7}{12} + \frac{5}{12} \div \frac{9}{5}$$

$$\left(25 + \frac{3}{4}\right) \div \frac{1}{4} + \frac{1}{4}$$

$$\frac{18}{25} \times \frac{9}{16} + \frac{7}{25} \times \frac{9}{16} + \frac{9}{16}$$

3 方程

$$\frac{3x-2}{8} + 8 = 16$$

$$\frac{x+3}{2} + 5 = 7$$

$$\frac{5x+9}{5} - 1.8 = 8$$

练习26

1 口算

$$\frac{4}{3} : 1\frac{7}{13} = \text{——} : \text{——}$$

$$2\frac{1}{5} : \frac{5}{7} = \text{——} : \text{——}$$

$$3\frac{1}{2} : \frac{7}{11} = \text{——} : \text{——}$$

$$2\frac{2}{3} : \frac{4}{17} = \text{——} : \text{——}$$

$$\frac{12}{5} : \frac{14}{15} = \text{——} : \text{——}$$

$$\frac{11}{4} : \frac{22}{5} = \text{——} : \text{——}$$

2 脱式

$$26\frac{2}{3} \times \frac{1}{5}$$

$$0.375 \times 6 + \frac{3}{8} \times 7 + 37.5\% \times 3$$

$$99 \times \frac{99}{100}$$

$$99\frac{2}{5} \times 87 + 87 \times 0.6$$

3 方程

$$\frac{3x-1}{2} - 4 = 6$$

$$\frac{5x-1}{2} = 7$$

$$\frac{13-3x}{2} = 2$$

1 口算

$\frac{1}{7} : \frac{11}{6} = \text{——} : \text{——}$

$2\frac{3}{11} : 6\frac{1}{4} = \text{——} : \text{——}$

$4\frac{3}{5} : 2\frac{5}{9} = \text{——} : \text{——}$

$1\frac{2}{9} : 3\frac{2}{3} = \text{——} : \text{——}$

$5\frac{1}{5} : 4\frac{7}{8} = \text{——} : \text{——}$

$1\frac{2}{3} : 3\frac{3}{4} = \text{——} : \text{——}$

2 脱式

$73 \times \frac{35}{36}$

$42 \times 80\% + 8 \div \frac{5}{4}$

$23 \times \frac{23}{24}$

$5 \times \frac{1}{8} \times 35\% \div 12.5\% \times \frac{20}{7}$

3 方程

$\frac{21-x}{3} + 2 = 5$

$\frac{3x+2}{5} - 2 = 9$

$\frac{3x-5}{4} + 2 = 12$

练习28

1 口算

$4\frac{1}{5} : 3\frac{1}{9} = \text{---} : \text{---}$

$7\frac{1}{3} : 9\frac{3}{7} = \text{---} : \text{---}$

$1\frac{1}{2} : \frac{5}{8} = \text{---} : \text{---}$

$1\frac{1}{2} : 2\frac{7}{10} = \text{---} : \text{---}$

$\frac{8}{77} : \frac{32}{7} = \text{---} : \text{---}$

$\frac{8}{27} : \frac{28}{15} = \text{---} : \text{---}$

2 脱式

$4 \times 25\% \times 8 \times 1.25$

$99 \times \frac{24}{25} + 1 \div \frac{25}{24}$

$73\frac{1}{15} \times \frac{1}{8}$

$23\% \times 16 + \frac{23}{100} \times 34$

3 方程

$\frac{3x-11}{4} - 4 = 6$

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

$\frac{8x+5}{3} - 7 = 8$

1 口算

$$4\frac{4}{7} : 6\frac{2}{5} = \text{——} : \text{——}$$

$$3\frac{3}{8} : 3\frac{15}{16} = \text{——} : \text{——}$$

$$5\frac{1}{3} : 2\frac{2}{7} = \text{——} : \text{——}$$

$$3\frac{1}{4} : 5\frac{1}{5} = \text{——} : \text{——}$$

$$7\frac{1}{5} : 5\frac{1}{7} = \text{——} : \text{——}$$

$$8\frac{4}{9} : 2\frac{1}{9} = \text{——} : \text{——}$$

2 脱式

$$\frac{44}{45} \times 37$$

$$99 \times 37.5\% + \frac{3}{8}$$

$$2004 \times \frac{67}{2003}$$

$$\frac{1}{4} \times 39 + \frac{3}{4} \times 25 + \frac{26}{4} \times \frac{3}{13}$$

3 方程

$$24 - \frac{x-5}{4} = 18$$

$$20 - \frac{21-3x}{3} = 15$$

$$\frac{2x+10}{15} - 5 = 9$$

练习30

1 口算

$7\frac{7}{8}:1\frac{2}{7} = \text{---}:\text{---}$

$6\frac{1}{3}:9\frac{1}{2} = \text{---}:\text{---}$

$4\frac{2}{5}:6\frac{2}{7} = \text{---}:\text{---}$

$12\frac{1}{2}:7\frac{1}{2} = \text{---}:\text{---}$

$20\frac{2}{5}:5\frac{1}{10} = \text{---}:\text{---}$

$2\frac{3}{4}:4\frac{1}{8} = \text{---}:\text{---}$

2 脱式

$166\frac{1}{20} \div 41$

$2000 \div 2000\frac{2000}{2001}$

$\left(9\frac{2}{7} + 15\right) \div 5$

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

3 方程

$\frac{x-3}{5} + 18 = 21$

$\frac{1+x}{3} = 12 - 8$

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

参考答案

练习 1:

3:4; 4:5; 5:12
5:6; 11:8; 2:1
 $\frac{11}{36}$ 0 $\frac{5}{9}$ $\frac{6}{13}$
8 9 49

练习 4:

16:5; 11:7; 3:2
5:7; 63:16; 2:11
 $\frac{1}{7}$ 1 $\frac{8}{7}$ 60
0.5 1 6

练习 2:

2:5; 15:4; 18:47
3:5; 1:5; 7:13
 $\frac{3}{4}$ 1 28 5
7 $\frac{5}{3}$ 13

练习 5:

3:5; 11:13; 12:7
24:55; 2:5; 3:4
 $\frac{27}{8}$ $\frac{5}{7}$ $\frac{12}{5}$ 12.5
3 17 13

练习 3:

12:7; 2:5; 2:3
13:7; 2:13; 5:18
 $3\frac{6}{35}$ $5\frac{19}{25}$ 70 60
1 7 36

练习 6:

13:14; 14:27; 6:7
1:6; 40:13; 2:9
3 $43\frac{43}{44}$ $\frac{2}{5}$ 72
5 $\frac{2}{3}$ 16

练习 7:

$2:5; \quad 9:4; \quad 3:4$

$1:4; \quad 3:1; \quad 25:3$

$\frac{4}{5} \quad \frac{24}{13} \quad \frac{1}{7} \quad \frac{5}{11}$

$3 \quad 14 \quad 9$

练习 10:

$1:102; \quad 1:402; \quad 1:3$

$3:4:5; \quad 2:4:5; \quad 12:10:7$

$16 \quad 1\frac{5}{6} \quad \frac{4}{7} \quad 24$

$4 \quad 5.5 \quad 6$

练习 8:

$1:5; \quad 4:1; \quad 3:5$

$3:2; \quad 5:4; \quad 2:3$

$4 \quad \frac{3}{14} \quad 1 \quad \frac{6}{7}$

$23 \quad 1 \quad 4$

练习 11:

$3:6:10; \quad 6:4:15; \quad 7:14:8$

$6:11:17; \quad 1:2:9; \quad 7:16:20$

$34\frac{34}{35} \quad 27 \quad 7\frac{1}{7} \quad 95\frac{95}{96}$

$4 \quad 13 \quad 7$

练习 9:

$8:13; \quad 40:7; \quad 11:21$

$5:6; \quad 4:7; \quad 1:101$

$\frac{8}{9} \quad \frac{4}{9} \quad \frac{2}{7} \quad 75$

$2 \quad 7 \quad 1$

练习 12:

$4:5; \quad 50:7; \quad 4:5$

$2:9; \quad 1:20; \quad 2:5$

$92 \quad \frac{7}{6} \quad \frac{2}{9} \quad 3$

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

练习 13:

$$\begin{array}{lll}
 5:12; & 5:22; & 10:7 \\
 15:1; & 9:4; & 4:45 \\
 16 & \frac{6}{7} & \frac{1}{4} \quad 9 \\
 9 & 6 & 11.5
 \end{array}$$

练习 16:

$$\begin{array}{lll}
 5:11; & 400:1; & 200:9 \\
 1:5; & 23:320; & 40:3 \\
 61\frac{61}{62} & 103 & 0 \quad 58 \\
 8 & 9 & 7
 \end{array}$$

练习 14:

$$\begin{array}{lll}
 1:30; & 20:1; & 100:11 \\
 19:90; & 3:100; & 40:1 \\
 \frac{4}{5} & 6 & \frac{13}{6} \quad 10 \\
 5 & \frac{25}{3} & 5
 \end{array}$$

练习 17:

$$\begin{array}{lll}
 7:40; & 8:3; & 2:5 \\
 1:20; & 4:1; & 500:3 \\
 16\frac{4}{25} & 1\frac{1}{15} & \frac{5}{11} \quad 7 \\
 16 & 4 & 34
 \end{array}$$

练习 15:

$$\begin{array}{lll}
 100:7; & 10:7; & 3:40 \\
 60:7; & 3:17; & 200:101 \\
 4 & 26 & \frac{1}{6} \quad 23 \\
 60 & 5 & 2
 \end{array}$$

练习 18:

$$\begin{array}{lll}
 9:5; & 5:3; & 45:32 \\
 2:5; & 3:2 & 8:15 \\
 10 & \frac{6}{7} & 109 \quad 19\frac{5}{7} \\
 14 & 9.5 & 11
 \end{array}$$

练习 19:

5:8; 9:10; 26:3
 3:4; 13:7; 16:13
 1000 23 8 750
 11 14 15

练习 22:

9:10; 9:14; 78:85
 5:32; 35:48; 66:65
 $\frac{1}{3}$ 28 $\frac{5}{9}$ $\frac{4}{7}$
 $\frac{28}{3}$ $\frac{35}{2}$ $\frac{21}{2}$

练习 20:

19:20; 29:3; 1:20
 3:1; 1:5; 3:10
 1 $11\frac{1}{10}$ $\frac{5}{11}$ $1\frac{5}{7}$
 $\frac{14}{3}$ 3 6

练习 23:

15:46; 35:32; 55:18
 65:49; 14:3; 19:9
 20 $\frac{21}{4}$ 49 12.5
 35 $\frac{23}{3}$ $\frac{37}{4}$

练习 21:

3:4; 15:8; 30:7
 2:3; 28:13; 77:30
 67 $18\frac{20}{39}$ $\frac{9}{10}$ $1\frac{1}{2020}$
 6 8 54

练习 24:

4:1; 5:6; 1:2
 1:4; 1:1; 3:5
 $\frac{1}{2}$ $44\frac{44}{45}$ $2006\frac{2006}{2007}$ 21
 $\frac{13}{2}$ 10 10

练习 25:

$$5:12; \quad 3:5; \quad 5:8$$

$$31:28; \quad 113:160; \quad 91:72$$

$$60 \quad \frac{5}{9} \quad 103\frac{1}{4} \quad \frac{9}{8}$$

$$22 \quad 1 \quad 8$$

练习 28:

$$27:20; \quad 7:9; \quad 12:5$$

$$5:9; \quad 1:44; \quad 10:63$$

$$10 \quad 96 \quad 9\frac{2}{15} \quad \frac{23}{2}$$

$$17 \quad 1.4 \quad 5$$

练习 26:

$$13:15; \quad 77:25; \quad 11:2$$

$$34:3; \quad 18:7; \quad 5:8$$

$$5\frac{1}{3} \quad 6 \quad 98\frac{1}{100} \quad 8700$$

$$7 \quad 3 \quad 3$$

练习 29

$$5:7; \quad 6:7; \quad 7:3$$

$$5:8; \quad 7:5; \quad 4:1$$

$$36\frac{8}{45} \quad 30 \quad 67\frac{67}{2003} \quad 37.5$$

$$29 \quad 2 \quad 100$$

练习 27:

$$6:77; \quad 4:11; \quad 9:5$$

$$1:3; \quad 16:15; \quad 4:9$$

$$70\frac{35}{36} \quad 40 \quad 22\frac{1}{24} \quad 5$$

$$12 \quad \frac{53}{3} \quad 15$$

练习 30:

$$49:8; \quad 2:3; \quad 7:10$$

$$5:3; \quad 4:1; \quad 2:3$$

$$4\frac{1}{20} \quad \frac{2001}{2002} \quad 4\frac{6}{7} \quad 0$$

$$18 \quad 11 \quad 6$$



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