

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 比大小

$$\frac{1}{3} \text{ — } \frac{5}{6}$$

$$\frac{1}{4} \text{ — } \frac{2}{5}$$

$$\frac{8}{23} \text{ — } \frac{1}{3}$$

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

2 分数计算

$$\frac{3}{4} \div 0.2 + \frac{1}{2} - 0.25$$

$$0.25 \times \left(\frac{9}{10} + \frac{4}{5} \times 0.75 \right)$$

$$\left(0.5 + \frac{1}{4} + 0.75 \right) \times \frac{1}{5}$$

$$0.5 + \frac{1}{4} \times 0.25 - \frac{1}{4}$$

3 分数方程

$$\frac{3}{5} - \frac{2}{5}x = \frac{2}{9}x - \frac{1}{5}$$

$$\frac{1}{2} + \frac{1}{2}x = \frac{3}{4} + \frac{3}{11}x$$

练习2

1 比大小

$$\frac{7}{20} \text{ — } \frac{2}{5}$$

$$\frac{5}{6} \text{ — } \frac{3}{4}$$

$$\frac{5}{16} \text{ — } \frac{1}{3}$$

$$\frac{16}{25} \text{ — } \frac{1}{2}$$

2 分数计算

$$\left(0.5 \times \frac{3}{4} + 0.125\right) \times \frac{1}{5}$$

$$\left(0.5 \times 0.25 + \frac{1}{2}\right) \div \frac{1}{8}$$

$$\frac{1}{5} + \left(0.5 + \frac{7}{8}\right) \div 0.625$$

$$0.25 \times \left(\frac{1}{10} + \frac{3}{4} \times 0.8\right)$$

3 分数方程

$$\frac{3}{10} + \frac{5}{12}x = \frac{1}{3} + \frac{2}{5}x$$

$$\frac{7}{12} - \frac{1}{3}x = \frac{3}{4}x - \frac{7}{8}$$

练习3

1 比大小

$$\frac{9}{20} \text{ —— } \frac{3}{4}$$

$$\frac{1}{3} \text{ —— } \frac{7}{17}$$

$$\frac{16}{17} \text{ —— } \frac{14}{15}$$

$$\frac{3}{20} \text{ —— } \frac{3}{14}$$

2 分数计算

$$0.3 \div \frac{4}{5} + \frac{3}{8} - 0.5$$

$$0.4 \div \frac{1}{5} + 0.75 - \frac{1}{2}$$

$$0.45 + 0.125 \div \frac{1}{2} - \frac{1}{5}$$

$$\frac{3}{5} + 0.625 \times \frac{2}{5} - 0.5$$

3 分数方程

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

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

练习4

1 比大小

$$\frac{2}{23} \text{ — } \frac{1}{12}$$

$$\frac{7}{12} \text{ — } \frac{3}{5}$$

$$\frac{8}{25} \text{ — } \frac{2}{5}$$

$$\frac{9}{19} \text{ — } \frac{1}{2}$$

2 分数计算

$$0.75 \times \left(\frac{4}{5} + 0.6 \times \frac{8}{3} \right)$$

$$0.15 - \frac{1}{2} \times \frac{1}{5} + 0.75$$

$$0.25 \div \frac{5}{8} + 0.5 - \frac{1}{5}$$

$$\frac{1}{8} \times \left(0.95 - \frac{3}{4} \right) \div 0.375$$

3 分数方程

$$\frac{1}{5} - \frac{1}{5}x = \frac{4}{5}x - \frac{7}{10}$$

$$\frac{6}{11} + \frac{1}{2}x = \frac{7}{11}x - \frac{2}{5}$$

练习5

1 比大小

$$\frac{23}{25} \text{ —— } \frac{13}{15}$$

$$\frac{7}{22} \text{ —— } \frac{3}{11}$$

$$\frac{1}{2} \text{ —— } \frac{7}{12}$$

$$\frac{5}{13} \text{ —— } \frac{1}{5}$$

2 分数计算

$$0.75 - \frac{3}{5} \div \left(\frac{3}{5} + 0.9 \right)$$

$$0.75 + \left(\frac{1}{2} + 0.25 \right) \div \frac{3}{5}$$

$$\left(0.7 + \frac{2}{5} + \frac{1}{2} \right) \times 0.2$$

$$0.9 \div \frac{1}{2} - \frac{8}{5} \times 0.25$$

3 分数方程

$$\frac{1}{2} - \frac{1}{6}x = \frac{2}{3}x - \frac{6}{7}$$

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

练习6

1 比大小

$$\frac{3}{8} \text{ — } \frac{5}{11}$$

$$\frac{3}{7} \text{ — } \frac{4}{9}$$

$$\frac{13}{14} \text{ — } \frac{21}{22}$$

$$\frac{6}{11} \text{ — } \frac{3}{8}$$

2 分数计算

$$\left(0.8 + \frac{1}{6} + \frac{1}{3}\right) \times 0.5$$

$$0.6 \times \left(\frac{1}{5} - \frac{1}{8}\right) \div 0.375$$

$$0.8 + 0.25 \times \frac{3}{5} - \frac{1}{2}$$

$$\frac{1}{4} \times 0.5 + \frac{1}{4} \div 0.125$$

3 分数方程

$$\frac{7}{10} + \frac{2}{3}x = \frac{4}{5}x - \frac{5}{12}$$

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

练习7

1 比大小

$$\frac{10}{13} \text{ —— } \frac{25}{28}$$

$$\frac{1}{6} \text{ —— } \frac{3}{14}$$

$$\frac{1}{2} \text{ —— } \frac{9}{20}$$

$$\frac{2}{7} \text{ —— } \frac{1}{13}$$

2 分数计算

$$0.2 + \left(\frac{2}{5} + \frac{1}{10} \right) \div 0.5$$

$$0.75 \times \frac{1}{2} + 0.5 \div \frac{4}{3}$$

$$0.4 \times \frac{1}{2} + 0.8 \div \frac{1}{4}$$

$$\frac{1}{4} + \left(0.5 + \frac{2}{5} \right) \div 0.2$$

3 分数方程

$$\frac{1}{3} + \frac{1}{2}x = \frac{7}{10} - \frac{1}{6}x$$

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

练习8

1 比大小

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

$$\frac{5}{12} \text{ —— } \frac{11}{30}$$

$$\frac{11}{30} \text{ —— } \frac{4}{9}$$

$$\frac{3}{13} \text{ —— } \frac{2}{5}$$

2 分数计算

$$\frac{3}{4} \times 0.5 + \frac{2}{5} \times 1.25$$

$$\left(0.2 \times \frac{1}{2} + \frac{1}{5}\right) \div 0.4$$

$$0.4 \div \frac{1}{2} - 0.5 \times \frac{2}{5}$$

$$\frac{1}{2} + \left(0.5 + \frac{3}{8}\right) \div 0.75$$

3 分数方程

$$\frac{9}{10} + \frac{1}{6}x = \frac{3}{4} + \frac{1}{2}x$$

$$\frac{1}{7} + \frac{4}{5}x = \frac{1}{2}x + \frac{3}{5}$$

练习9

1 比大小

$$\frac{19}{30} \text{ — } \frac{5}{9}$$

$$\frac{3}{4} \text{ — } \frac{7}{13}$$

$$\frac{5}{14} \text{ — } \frac{3}{7}$$

$$\frac{11}{20} \text{ — } \frac{3}{5}$$

2 分数计算

$$\frac{3}{4} + 0.5 + \frac{4}{5} \div 0.4$$

$$0.75 \div 0.6 + \frac{5}{8} - \frac{1}{4}$$

$$\frac{7}{8} + 0.5 \times \left(\frac{1}{2} - 0.125 \right)$$

$$0.6 \div \frac{1}{2} + 0.9 - \frac{1}{2}$$

3 分数方程

$$\frac{7}{10} - \frac{1}{3}x = \frac{1}{5}x - \frac{4}{5}$$

$$\frac{5}{6}x + \frac{1}{8} = \frac{1}{5} + \frac{3}{4}x$$

练习10

1 比大小

$$\frac{12}{19} \text{ — } \frac{2}{3}$$

$$\frac{1}{3} \text{ — } \frac{9}{20}$$

$$\frac{7}{8} \text{ — } \frac{5}{6}$$

$$\frac{15}{17} \text{ — } \frac{5}{8}$$

2 分数计算

$$\frac{3}{8} \times \left(0.5 - \frac{1}{4}\right) \div 0.5$$

$$\left(0.5 \times \frac{1}{8} + \frac{1}{4}\right) \div 0.2$$

$$0.75 \times 0.5 - \frac{1}{5} \div \frac{3}{5}$$

$$0.9 + \frac{7}{10} + 0.5 \div \frac{5}{8}$$

3 分数方程

$$\frac{1}{6}x + \frac{1}{4} = \frac{7}{10} - \frac{1}{4}x$$

$$\frac{3}{5} + \frac{7}{10}x = \frac{1}{3} + \frac{3}{4}x$$

1 比大小

$$\frac{2}{3} \text{ — } \frac{14}{17}$$

$$\frac{6}{7} \text{ — } \frac{10}{13}$$

$$\frac{11}{20} \text{ — } \frac{2}{5}$$

$$\frac{11}{16} \text{ — } \frac{4}{5}$$

2 分数计算

$$0.25 + 0.875 + \frac{1}{2} \div \frac{2}{5}$$

$$0.9 - \frac{1}{2} \div \left(\frac{1}{4} + 0.375 \right)$$

$$\left(0.8 \times \frac{3}{4} + \frac{1}{2} \right) \div 0.75$$

$$\left(0.2 + \frac{1}{2} + \frac{2}{5} \right) \times 0.625$$

3 分数方程

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

$$\frac{1}{3}x + \frac{1}{3} = \frac{1}{2} - \frac{1}{11}x$$

练习12

1 比大小

$$\frac{1}{4} \text{ — } \frac{5}{12}$$

$$\frac{6}{13} \text{ — } \frac{12}{27}$$

$$\frac{1}{5} \text{ — } \frac{7}{22}$$

$$\frac{13}{27} \text{ — } \frac{5}{7}$$

2 分数计算

$$0.5 \times 0.1 + \frac{5}{6} \div \frac{10}{3}$$

$$0.8 + 0.75 \div \frac{1}{2} - \frac{1}{2}$$

$$0.34 + \frac{1}{4} + 0.2 \times \frac{4}{5}$$

$$0.45 \div \frac{3}{5} + \frac{1}{2} - 0.55$$

3 分数方程

$$\frac{11}{12} + \frac{2}{7}x = \frac{1}{3}x - \frac{1}{4}$$

$$\frac{4}{9} + \frac{1}{4}x = \frac{5}{6} + \frac{2}{9}x$$

练习13

1 比大小

$$\frac{1}{2} \text{ — } \frac{11}{24}$$

$$\frac{4}{5} \text{ — } \frac{2}{7}$$

$$\frac{3}{10} \text{ — } \frac{3}{7}$$

$$\frac{7}{12} \text{ — } \frac{19}{28}$$

2 分数计算

$$0.65 \div \frac{1}{2} + \frac{1}{2} - 0.4$$

$$0.375 \times 0.8 + \frac{1}{2} \times \frac{1}{5}$$

$$\frac{9}{10} + 0.7 + \frac{2}{5} \times 1.25$$

$$0.375 + \left(\frac{1}{5} + \frac{1}{4} \right) \div 0.4$$

3 分数方程

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

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

练习14

1 比大小

$$\frac{2}{5} \text{ —— } \frac{3}{7}$$

$$\frac{4}{11} \text{ —— } \frac{2}{7}$$

$$\frac{13}{15} \text{ —— } \frac{5}{6}$$

$$\frac{11}{28} \text{ —— } \frac{1}{3}$$

2 分数计算

$$0.8 + \frac{3}{4} \times \left(\frac{7}{10} - 0.3 \right)$$

$$\frac{7}{10} + \frac{5}{3} \times \left(\frac{3}{4} - 0.15 \right)$$

$$\frac{4}{5} \times 0.25 + \frac{1}{2} \times 0.5$$

$$0.95 + \frac{1}{2} \times 0.6 - \frac{3}{4}$$

3 分数方程

$$\frac{8}{11} + \frac{4}{11}x = \frac{1}{2}x - \frac{1}{5}$$

$$\frac{1}{5} + \frac{1}{2}x = \frac{1}{4} + \frac{3}{7}x$$

1 比大小

$$\frac{1}{3} \text{ — } \frac{9}{22}$$

$$\frac{3}{19} \text{ — } \frac{1}{9}$$

$$\frac{3}{4} \text{ — } \frac{13}{17}$$

$$\frac{2}{5} \text{ — } \frac{8}{13}$$

2 分数计算

$$0.5 + \frac{1}{2} \times \left(\frac{9}{10} - 0.5 \right)$$

$$0.75 \times \left(\frac{2}{5} + 0.25 \times \frac{2}{5} \right)$$

$$0.75 \times \frac{1}{2} + \frac{4}{5} \div 0.2$$

$$\frac{1}{2} \times \left(0.75 + \frac{1}{4} \times 0.2 \right)$$

3 分数方程

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

$$\frac{8}{11} + \frac{1}{11}x = \frac{2}{3} + \frac{3}{11}x$$

练习16

1 比大小

$$\frac{5}{24} \text{ —— } \frac{1}{3}$$

$$\frac{13}{22} \text{ —— } \frac{1}{2}$$

$$\frac{6}{13} \text{ —— } \frac{4}{11}$$

$$\frac{3}{8} \text{ —— } \frac{4}{7}$$

2 分数计算

$$\frac{1}{5} \times \frac{4}{5} - \frac{11}{20} \times \frac{1}{5} + \frac{1}{5} \times \frac{1}{4}$$

$$\frac{1}{2} \times \frac{1}{2} + 0.15 \div 2 + \frac{1}{2} \times \frac{1}{4}$$

$$\frac{7}{8} \times \frac{1}{2} - 0.3 \times \frac{7}{8} + \frac{7}{8} \times \frac{1}{5}$$

$$0.5 \div 8 - \frac{1}{8} \times \frac{1}{4} + \frac{1}{8} \times \frac{1}{2}$$

3 分数方程

$$\frac{1}{2} \left(x - \frac{1}{2} \right) = \frac{4}{11}$$

$$\frac{3}{4} \left(x + \frac{8}{9} \right) = \frac{3}{4}$$

练习17

1 比大小

$$\frac{2}{13} \text{ — } \frac{2}{17}$$

$$\frac{6}{7} \text{ — } \frac{2}{3}$$

$$\frac{8}{15} \text{ — } \frac{2}{5}$$

$$\frac{17}{21} \text{ — } \frac{6}{7}$$

2 分数计算

$$0.25 \times \frac{1}{2} - \frac{1}{2} \times \frac{1}{10} + \frac{1}{2} \times \frac{3}{5}$$

$$\frac{1}{6} \times \frac{3}{8} - \frac{1}{6} \times \frac{1}{4} + 0.375 \times \frac{1}{6}$$

$$\frac{1}{5} \times \frac{1}{2} - \frac{3}{8} \div 5 + \frac{1}{5} \times \frac{1}{4}$$

$$\frac{3}{8} \times \frac{3}{8} + \frac{7}{40} \div \frac{8}{3} + \frac{3}{8} \times \frac{1}{5}$$

3 分数方程

$$\frac{1}{2} - \left(\frac{2}{5}x - \frac{3}{7} \right) = \frac{4}{5}$$

$$\frac{1}{2} \left(x + \frac{4}{11} \right) = \frac{2}{3}$$

练习18

1 比大小

$$\frac{5}{6} \text{ — } \frac{9}{11}$$

$$\frac{1}{4} \text{ — } \frac{5}{19}$$

$$\frac{13}{25} \text{ — } \frac{3}{5}$$

$$\frac{20}{23} \text{ — } \frac{10}{11}$$

2 分数计算

$$0.375 \div \frac{4}{3} - \frac{3}{8} \times \frac{3}{4} + \frac{3}{8} \times \frac{3}{5}$$

$$\frac{4}{5} \div \frac{5}{3} + \frac{1}{10} \times \frac{4}{5} + \frac{4}{5} \times 0.8$$

$$\frac{1}{2} \div 2.5 + \frac{1}{2} \times \frac{1}{5} + \frac{1}{2} \times \frac{1}{15}$$

$$\frac{1}{8} \times \frac{1}{2} - \frac{1}{8} \times \frac{3}{10} + \frac{3}{5} \times 0.125$$

3 分数方程

$$\frac{4}{11} \left(x + \frac{11}{8} \right) = \frac{3}{4}$$

$$\frac{1}{4} - \left(\frac{1}{2}x - \frac{1}{3} \right) = \frac{2}{3}x$$

1 比大小

$$\frac{1}{4} \text{ — } \frac{7}{24}$$

$$\frac{11}{21} \text{ — } \frac{13}{28}$$

$$\frac{3}{14} \text{ — } \frac{2}{11}$$

$$\frac{7}{8} \text{ — } \frac{9}{11}$$

2 分数计算

$$0.5 \div \frac{5}{3} - \frac{3}{5} \times \frac{7}{20} + \frac{3}{5} \times \frac{3}{5}$$

$$0.625 \div \frac{5}{4} - \frac{5}{8} \times \frac{1}{10} + \frac{5}{8} \times \frac{3}{10}$$

$$\frac{3}{4} \times \frac{1}{5} + \frac{1}{2} \times \frac{3}{4} - 0.75 \div 5$$

$$\frac{1}{2} \times \frac{3}{4} - 0.5 \div \frac{20}{9} + \frac{1}{2} \times \frac{1}{2}$$

3 分数方程

$$\frac{1}{3} \left(x - \frac{5}{2} \right) = \frac{1}{12}$$

$$\frac{3}{10} - \left(\frac{3}{10}x - \frac{1}{2} \right) = \frac{2}{5}$$

练习20

1 比大小

$$\frac{4}{5} \text{ — } \frac{14}{15}$$

$$\frac{14}{27} \text{ — } \frac{2}{3}$$

$$\frac{5}{29} \text{ — } \frac{1}{12}$$

$$\frac{9}{26} \text{ — } \frac{4}{13}$$

2 分数计算

$$\frac{4}{7} \times 0.75 - \frac{1}{2} \times \frac{4}{7} + \frac{4}{7} \times \frac{1}{8}$$

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

$$\frac{3}{4} \div 2.5 + \frac{3}{4} \times \frac{9}{40} + \frac{3}{4} \times \frac{1}{8}$$

$$\frac{5}{12} \div 5 + \frac{5}{12} \times \frac{1}{20} + \frac{1}{2} \times \frac{5}{12}$$

3 分数方程

$$\frac{7}{6} \left(x - \frac{6}{7} \right) = \frac{7}{12}$$

$$\frac{1}{7} \left(x - \frac{21}{5} \right) = \frac{1}{2}$$

1 比大小

$$\frac{12}{17} \text{ — } \frac{2}{5}$$

$$\frac{17}{22} \text{ — } \frac{3}{4}$$

$$\frac{1}{6} \text{ — } \frac{5}{16}$$

$$\frac{24}{25} \text{ — } \frac{25}{26}$$

2 分数计算

$$\frac{1}{4} \times \frac{1}{5} + \frac{1}{5} \times \frac{1}{20} + \frac{1}{5} \times \frac{1}{5}$$

$$\frac{7}{8} \times \frac{1}{2} - 0.875 \div \frac{10}{3} + \frac{7}{8} \times \frac{3}{5}$$

$$\frac{4}{5} \div 2.5 - \frac{2}{5} \times \frac{1}{5} + \frac{2}{5} \times \frac{1}{10}$$

$$\frac{1}{2} \times \frac{7}{12} - \frac{1}{2} \times \frac{1}{12} + \frac{1}{4} \times 0.5$$

3 分数方程

$$\frac{9}{10} \left(x + \frac{5}{9} \right) = \frac{2}{3}$$

$$\frac{4}{5} \left(x - \frac{15}{32} \right) = \frac{3}{4}$$

练习22

1 比大小

$$\frac{13}{14} \text{ — } \frac{11}{12}$$

$$\frac{2}{7} \text{ — } \frac{8}{21}$$

$$\frac{9}{26} \text{ — } \frac{5}{13}$$

$$\frac{1}{3} \text{ — } \frac{9}{22}$$

2 分数计算

$$\frac{1}{2} \times \frac{1}{12} - 0.5 \div \frac{3}{2} + \frac{5}{6} \times \frac{1}{2}$$

$$\frac{1}{4} \times \frac{1}{5} + 0.25 \div \frac{10}{3} + \frac{1}{4} \times \frac{1}{10}$$

$$0.7 \div \frac{4}{3} - \frac{7}{10} \times \frac{7}{20} + \frac{7}{10} \times \frac{1}{5}$$

$$\frac{4}{15} \times \frac{1}{3} - \frac{2}{5} \times \frac{1}{3} + 0.2 \times \frac{1}{3}$$

3 分数方程

$$\frac{3}{10} \left(x + \frac{40}{21} \right) = \frac{7}{10}$$

$$\frac{3}{7} - \left(\frac{3}{10}x - \frac{1}{5} \right) = \frac{1}{4}x$$

1 比大小

$$\frac{4}{17} \text{ — } \frac{1}{4}$$

$$\frac{9}{22} \text{ — } \frac{3}{5}$$

$$\frac{12}{29} \text{ — } \frac{6}{13}$$

$$\frac{8}{9} \text{ — } \frac{10}{11}$$

2 分数计算

$$0.4 \div 5 - \frac{1}{5} \times \frac{3}{10} + \frac{1}{5} \times \frac{1}{2}$$

$$\frac{9}{10} \times 0.5 - \frac{1}{2} \times \frac{3}{4} + \frac{1}{2} \times \frac{1}{4}$$

$$\frac{2}{5} \times \frac{5}{8} - \frac{1}{8} \times 0.4 + \frac{2}{5} \times \frac{1}{2}$$

$$\frac{3}{8} \times \frac{5}{8} - \frac{5}{8} \times \frac{1}{4} + \frac{5}{8} \times \frac{1}{2}$$

3 分数方程

$$\frac{1}{8} \left(x + \frac{40}{7} \right) = \frac{3}{4}$$

$$\frac{5}{6} - \left(\frac{5}{8}x - \frac{2}{3} \right) = \frac{7}{12}x$$

练习24

1 比大小

$$\frac{3}{8} \text{ — } \frac{7}{17}$$

$$\frac{5}{14} \text{ — } \frac{2}{5}$$

$$\frac{5}{6} \text{ — } \frac{13}{20}$$

$$\frac{2}{7} \text{ — } \frac{7}{10}$$

2 分数计算

$$\frac{1}{10} \times \frac{9}{10} - \frac{3}{5} \times 0.1 + \frac{1}{10} \times \frac{1}{2}$$

$$\frac{4}{5} \times \frac{1}{4} + 0.8 \times \frac{1}{8} + \frac{1}{2} \times \frac{4}{5}$$

$$\frac{1}{2} \times \frac{4}{5} - \frac{1}{2} \times \frac{11}{20} + \frac{1}{2} \times \frac{1}{2}$$

$$\frac{2}{3} \times \frac{1}{8} - 0.25 \times \frac{2}{3} + \frac{2}{3} \times \frac{3}{4}$$

3 分数方程

$$\frac{1}{8} \left(x + \frac{16}{7} \right) = \frac{5}{6}$$

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

1 比大小

$$\frac{2}{3} \text{ — } \frac{8}{27}$$

$$\frac{19}{22} \text{ — } \frac{5}{6}$$

$$\frac{18}{25} \text{ — } \frac{2}{5}$$

$$\frac{4}{15} \text{ — } \frac{7}{25}$$

2 分数计算

$$\frac{2}{5} \times 0.5 - \frac{1}{2} \times \frac{3}{10} + \frac{1}{2} \times \frac{1}{10}$$

$$\frac{2}{5} \times \frac{9}{14} - \frac{2}{5} \times \frac{1}{7} + \frac{1}{10} \div \frac{5}{2}$$

$$\frac{2}{7} \times 0.5 - \frac{2}{5} \times \frac{2}{7} + \frac{2}{7} \times \frac{1}{2}$$

$$\frac{9}{10} \times \frac{19}{20} - \frac{9}{10} \times \frac{2}{5} + 0.9 \times \frac{1}{5}$$

3 分数方程

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

$$\frac{2}{3} - \left(\frac{1}{3}x - \frac{3}{4} \right) = \frac{1}{2}x$$

练习26

1 比大小

$$\frac{5}{7} \text{ — } \frac{7}{10}$$

$$\frac{9}{14} \text{ — } \frac{13}{21}$$

$$\frac{7}{10} \text{ — } \frac{4}{5}$$

$$\frac{5}{6} \text{ — } \frac{7}{8}$$

2 分数计算

$$\frac{1}{8} \times \frac{3}{5} - \frac{1}{8} \times \frac{7}{20} + \frac{1}{8} \times \frac{1}{4}$$

$$\frac{4}{5} \times \frac{3}{13} + \frac{10}{13} \div \frac{5}{4} + \frac{4}{5} \times \frac{1}{2}$$

$$\frac{1}{2} \times \frac{1}{2} - \frac{1}{2} \times \frac{3}{20} + 0.25 \div 2$$

$$\frac{1}{5} \div 1.6 + \frac{5}{8} \times \frac{1}{20} + \frac{5}{8} \times \frac{1}{4}$$

3 分数方程

$$\frac{1}{2} - \left(\frac{7}{9}x - \frac{1}{2} \right) = \frac{5}{9}x$$

$$\frac{2}{5} \left(x - \frac{5}{12} \right) = \frac{3}{4}$$

1 比大小

$$\frac{4}{23} \text{ — } \frac{1}{12}$$

$$\frac{14}{25} \text{ — } \frac{7}{13}$$

$$\frac{2}{21} \text{ — } \frac{4}{9}$$

$$\frac{3}{7} \text{ — } \frac{13}{22}$$

2 分数计算

$$\frac{5}{6} \times \frac{1}{2} - \frac{5}{6} \times \frac{1}{8} + \frac{5}{6} \times 0.5$$

$$\frac{1}{4} \times \frac{1}{2} - \frac{1}{4} \times \frac{5}{12} + \frac{1}{4} \times 0.25$$

$$\frac{3}{10} \div \frac{5}{4} - \frac{4}{5} \times 0.4 + \frac{4}{5} \times \frac{1}{2}$$

$$\frac{1}{2} \times \frac{3}{4} - \frac{1}{2} \div \frac{20}{7} + \frac{1}{2} \times \frac{1}{5}$$

3 分数方程

$$\frac{1}{4} - \left(\frac{4}{5}x - \frac{3}{4} \right) = \frac{1}{2}$$

$$\frac{7}{9} - \left(\frac{2}{5}x - \frac{1}{3} \right) = \frac{9}{10}$$

练习28

1 比大小

$$\frac{3}{4} \text{ — } \frac{15}{22}$$

$$\frac{13}{14} \text{ — } \frac{23}{24}$$

$$\frac{8}{9} \text{ — } \frac{2}{3}$$

$$\frac{3}{5} \text{ — } \frac{19}{30}$$

2 分数计算

$$\frac{9}{10} \times \frac{1}{10} - \frac{9}{10} \times \frac{1}{20} + \frac{3}{4} \div \frac{10}{9}$$

$$\frac{1}{2} \times \frac{1}{4} + 0.5 \div 20 + \frac{1}{2} \times \frac{1}{2}$$

$$\frac{1}{2} \times \frac{3}{4} - \frac{1}{2} \times \frac{13}{20} + 0.5 \div \frac{5}{2}$$

$$\frac{3}{4} \times \frac{2}{5} - 0.15 \div \frac{4}{3} + \frac{3}{4} \times \frac{1}{2}$$

3 分数方程

$$\frac{2}{3} - \left(\frac{2}{3}x - \frac{1}{3} \right) = \frac{1}{5}x$$

$$\frac{2}{5} - \left(\frac{2}{3}x - \frac{3}{10} \right) = \frac{1}{3}$$

1 比大小

$$\frac{5}{26} \text{ — } \frac{1}{4}$$

$$\frac{1}{3} \text{ — } \frac{7}{30}$$

$$\frac{9}{14} \text{ — } \frac{2}{5}$$

$$\frac{3}{7} \text{ — } \frac{13}{28}$$

2 分数计算

$$\frac{1}{2} \times \frac{1}{10} + 0.5 \div \frac{20}{3} + \frac{1}{2} \times \frac{5}{8}$$

$$\frac{1}{5} \times \frac{2}{5} - \frac{1}{5} \times \frac{3}{10} + \frac{1}{5} \div 2.5$$

$$\frac{3}{4} \times \frac{3}{4} - 0.75 \div \frac{20}{13} + \frac{3}{4} \times \frac{2}{5}$$

$$\frac{14}{15} \times \frac{7}{10} - \frac{7}{10} \times 0.7 + \frac{7}{10} \times \frac{1}{15}$$

3 分数方程

$$\frac{4}{5} - \left(\frac{4}{5}x - \frac{1}{5} \right) = \frac{9}{10}$$

$$\frac{4}{5} \left(x - \frac{45}{44} \right) = \frac{3}{5}$$

练习30

1 比大小

$$\frac{4}{9} \text{ — } \frac{17}{24}$$

$$\frac{2}{3} \text{ — } \frac{23}{28}$$

$$\frac{1}{6} \text{ — } \frac{3}{13}$$

$$\frac{7}{15} \text{ — } \frac{13}{25}$$

2 分数计算

$$\frac{4}{5} \times \frac{1}{2} - \frac{4}{5} \times \frac{1}{4} + 0.8 \div \frac{4}{3}$$

$$\frac{1}{8} \times \frac{2}{13} - \frac{1}{10} \div 8 + \frac{1}{8} \times \frac{11}{13}$$

$$\frac{3}{8} \times \frac{1}{2} - \frac{1}{8} \div \frac{8}{3} + 0.375 \times \frac{3}{4}$$

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

3 分数方程

$$\frac{4}{9} \left(x - \frac{3}{4} \right) = \frac{4}{5}$$

$$\frac{6}{11} - \left(\frac{1}{4}x - \frac{7}{12} \right) = \frac{1}{2}$$

参考答案

练习 1

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$\frac{3}{8}$

$\frac{3}{10}$

$\frac{5}{16}$

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

$x = \frac{11}{10}$

练习 3

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$\frac{1}{4}$

$\frac{9}{4}$

$\frac{1}{2}$

$\frac{7}{20}$

$x = \frac{51}{25}$

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

练习 2

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$\frac{1}{10}$

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$\frac{12}{5}$

$\frac{7}{40}$

$x = 2$

$x = \frac{35}{26}$

练习 4

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$\frac{9}{5}$

$\frac{4}{5}$

$\frac{7}{10}$

$\frac{1}{15}$

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

$x = \frac{104}{15}$

练习 5

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$\frac{7}{20}$ 2

$\frac{8}{25}$ $\frac{7}{5}$

$x = \frac{57}{35}$ $x = \frac{1}{15}$

练习 7

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$\frac{6}{5}$ $\frac{3}{4}$

$\frac{17}{5}$ $\frac{19}{4}$

$x = \frac{11}{20}$ $x = \frac{5}{3}$

练习 6

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$\frac{13}{20}$ $\frac{3}{25}$

$\frac{9}{20}$ $\frac{17}{8}$

$x = \frac{67}{8}$ $x = \frac{44}{7}$

练习 8

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

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

$x = \frac{9}{20}$ $x = \frac{32}{21}$

练习 9

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$$\frac{13}{4} \quad \frac{13}{8}$$

$$\frac{17}{16} \quad \frac{8}{5}$$

$$x = \frac{45}{16} \quad x = \frac{9}{10}$$

练习 11

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$$\frac{19}{8} \quad \frac{1}{10}$$

$$\frac{22}{15} \quad \frac{11}{16}$$

$$x = 5 \quad x = \frac{11}{28}$$

练习 10

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$$\frac{3}{16} \quad \frac{25}{16}$$

$$\frac{1}{24} \quad \frac{12}{5}$$

$$x = \frac{27}{25} \quad x = \frac{16}{3}$$

练习 12

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$$\frac{3}{10} \quad \frac{9}{5}$$

$$\frac{3}{4} \quad \frac{7}{10}$$

$$x = \frac{49}{2} \quad x = 14$$

练习 13

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$\frac{7}{5}$ $\frac{2}{5}$

$\frac{21}{10}$ $\frac{3}{2}$

$x = \frac{11}{6}$ $x = \frac{1}{8}$

练习 15

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$\frac{7}{10}$ $\frac{3}{8}$

$\frac{35}{8}$ $\frac{2}{5}$

$x = \frac{4}{35}$ $x = \frac{1}{3}$

练习 14

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$\frac{11}{10}$ $\frac{17}{10}$

$\frac{9}{20}$ $\frac{1}{2}$

$x = \frac{34}{5}$ $x = \frac{7}{10}$

练习 16

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$\frac{1}{10}$ $\frac{9}{20}$

$\frac{7}{20}$ $\frac{3}{32}$

$x = \frac{27}{22}$ $x = \frac{1}{9}$

练习 17

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$\frac{3}{8}$ $\frac{1}{12}$

$\frac{3}{40}$ $\frac{9}{32}$

$x = \frac{9}{28}$ $x = \frac{32}{33}$

练习 19

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$\frac{9}{20}$ $\frac{5}{8}$

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

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

练习 18

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$\frac{9}{40}$ $\frac{6}{5}$

$\frac{1}{3}$ $\frac{1}{10}$

$x = \frac{11}{16}$ $x = \frac{1}{2}$

练习 20

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$\frac{3}{14}$ $\frac{2}{5}$

$\frac{9}{16}$ $\frac{5}{16}$

$x = \frac{19}{14}$ $x = \frac{77}{10}$

练习 21

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$\frac{1}{10}$ $\frac{7}{10}$

$\frac{7}{25}$ $\frac{3}{8}$

$x = \frac{5}{27}$ $x = \frac{45}{32}$

练习 23

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$\frac{3}{25}$ $\frac{1}{5}$

$\frac{2}{5}$ $\frac{25}{64}$

$x = \frac{2}{7}$ $x = \frac{36}{29}$

练习 22

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$\frac{1}{8}$ $\frac{3}{20}$

$\frac{21}{50}$ $\frac{1}{45}$

$x = \frac{3}{7}$ $x = \frac{8}{7}$

练习 24

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$\frac{2}{25}$ $\frac{7}{10}$

$\frac{3}{8}$ $\frac{5}{12}$

$x = \frac{92}{21}$ $x = \frac{17}{6}$

练习 25

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$$\frac{1}{10} \quad \frac{6}{25}$$

$$\frac{6}{35} \quad \frac{27}{40}$$

$$x = \frac{7}{3} \quad x = \frac{17}{10}$$

练习 27

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$$\frac{35}{48} \quad \frac{1}{12}$$

$$\frac{8}{25} \quad \frac{3}{10}$$

$$x = \frac{5}{8} \quad x = \frac{19}{36}$$

练习 26

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$$\frac{1}{16} \quad \frac{6}{5}$$

$$\frac{3}{10} \quad \frac{5}{16}$$

$$x = \frac{3}{4} \quad x = \frac{55}{24}$$

练习 28

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$$\frac{18}{25} \quad \frac{2}{5}$$

$$\frac{1}{4} \quad \frac{9}{16}$$

$$x = \frac{15}{13} \quad x = \frac{11}{20}$$

练习 29

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$\frac{7}{16}$ $\frac{1}{10}$

$\frac{3}{8}$ $\frac{21}{100}$

$x = \frac{1}{8}$ $x = \frac{39}{22}$

练习 30

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$\frac{4}{5}$ $\frac{9}{80}$

$\frac{27}{64}$ $\frac{7}{60}$

$x = \frac{51}{20}$ $x = \frac{83}{33}$