



## 参考答案

### 第 1 页

$$1. \frac{3}{10} \times 3 = \frac{3 \times 3}{10} = \frac{9}{10}$$

$$\frac{2}{15} \times 4 = \frac{2 \times 4}{15} = \frac{8}{15}$$

$$\frac{5}{38} \times 7 = \frac{5 \times 7}{38} = \frac{35}{38}$$

$$\frac{11}{23} \times 11 = \frac{11 \times 11}{23} = \frac{121}{23}$$

$$\frac{3}{17} \times 4 = \frac{3 \times 4}{17} = \frac{12}{17}$$

$$\frac{3}{14} \times 5 = \frac{3 \times 5}{14} = \frac{15}{14}$$

$$2. \frac{8}{11} \times 3 = \frac{8 \times 3}{11} = \frac{24}{11} = 2 \frac{2}{11}$$

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

$$\frac{7}{25} \times 3 = \frac{7 \times 3}{25} = \frac{21}{25}$$

$$\frac{4}{15} \times 2 = \frac{4 \times 2}{15} = \frac{8}{15}$$

$$8 \times \frac{3}{25} = \frac{8 \times 3}{25} = \frac{24}{25}$$

$$4 \times \frac{5}{21} = \frac{4 \times 5}{21} = \frac{20}{21}$$

$$7 \times \frac{1}{12} = \frac{7 \times 1}{12} = \frac{7}{12}$$

$$13 \times \frac{3}{40} = \frac{13 \times 3}{40} = \frac{39}{40}$$

$$\frac{2}{9} \times 4 = \frac{2 \times 4}{9} = \frac{8}{9}$$

### 第 2 页

$$1. 3 \times \frac{2}{9} = \frac{3 \times 2}{9} = \frac{2}{3}$$

$$3 \times \frac{4}{15} = \frac{3 \times 4}{15} = \frac{4}{5}$$

$$16 \times \frac{7}{32} = \frac{16 \times 7}{32} = \frac{7}{2}$$

$$4 \times \frac{5}{24} = \frac{4 \times 5}{24} = \frac{5}{6}$$

$$50 \times \frac{3}{100} = \frac{50 \times 3}{100} = \frac{3}{2}$$

$$8 \times \frac{5}{12} = \frac{8 \times 5}{12} = \frac{10}{3}$$

$$2. 7 \times \frac{4}{21} = \frac{7 \times 4}{21} = \frac{4}{3}$$

$$30 \times \frac{7}{10} = \frac{30 \times 7}{10} = 21$$

$$9 \times \frac{5}{6} = \frac{9 \times 5}{6} = \frac{15}{2}$$

$$\frac{5}{16} \times 12 = \frac{5 \times 12}{16} = \frac{15}{4}$$

$$\frac{5}{27} \times 6 = \frac{5 \times 6}{27} = \frac{10}{9}$$

$$\frac{7}{30} \times 25 = \frac{7 \times 25}{30} = \frac{35}{6}$$

$$15 \times \frac{2}{5} = \frac{15 \times 2}{5} = 6$$

$$\frac{3}{7} \times 21 = \frac{3 \times 21}{7} = 9$$

$$12 \times \frac{5}{36} = \frac{12 \times 5}{36} = \frac{5}{3}$$

### 第 3 页

$$1. \frac{1}{3} \times \frac{1}{4} = \frac{1 \times 1}{3 \times 4} = \frac{1}{12}$$

$$\frac{2}{7} \times \frac{3}{5} = \frac{2 \times 3}{7 \times 5} = \frac{6}{35}$$

$$\frac{1}{5} \times \frac{1}{5} = \frac{1 \times 1}{5 \times 5} = \frac{1}{25}$$

$$\frac{2}{3} \times \frac{2}{3} = \frac{2 \times 2}{3 \times 3} = \frac{4}{9}$$

$$\frac{3}{7} \times \frac{3}{8} = \frac{3 \times 3}{7 \times 8} = \frac{9}{56}$$

$$\frac{3}{10} \times \frac{7}{11} = \frac{3 \times 7}{10 \times 11} = \frac{21}{110}$$

$$2. \frac{1}{8} \times \frac{5}{9} = \frac{1 \times 5}{8 \times 9} = \frac{5}{72}$$

$$\frac{3}{11} \times \frac{2}{5} = \frac{3 \times 2}{11 \times 5} = \frac{6}{55}$$

$$\frac{4}{21} \times \frac{2}{3} = \frac{4 \times 2}{21 \times 3} = \frac{8}{63}$$

$$\frac{1}{2} \times \frac{7}{9} = \frac{1 \times 7}{2 \times 9} = \frac{7}{18}$$

$$\frac{3}{7} \times \frac{3}{7} = \frac{3 \times 3}{7 \times 7} = \frac{9}{49}$$

$$\frac{9}{10} \times \frac{3}{5} = \frac{9 \times 3}{10 \times 5} = \frac{27}{50}$$

$$\frac{5}{6} \times \frac{1}{11} = \frac{5 \times 1}{6 \times 11} = \frac{5}{66}$$

$$\frac{2}{3} \times \frac{4}{7} = \frac{2 \times 4}{3 \times 7} = \frac{8}{21}$$

$$\frac{4}{9} \times \frac{2}{5} = \frac{4 \times 2}{9 \times 5} = \frac{8}{45}$$

### 第 4 页

$$1. \frac{2}{5} \times \frac{5}{6} = \frac{2 \times 5}{5 \times 6} = \frac{1}{3}$$

$$\frac{3}{4} \times \frac{8}{9} = \frac{3 \times 8}{4 \times 9} = \frac{2}{3}$$

$$\frac{7}{9} \times \frac{3}{10} = \frac{7 \times 3}{9 \times 10} = \frac{7}{30}$$

$$\frac{5}{28} \times \frac{4}{5} = \frac{5 \times 4}{28 \times 5} = \frac{1}{7}$$

$$2. \frac{7}{18} \times \frac{5}{7} = \frac{7 \times 5}{18 \times 7} = \frac{5}{18}$$

$$\frac{5}{14} \times \frac{7}{10} = \frac{5 \times 7}{14 \times 10} = \frac{1}{4}$$

$$\frac{3}{8} \times 16 = \frac{3 \times 16}{8} = 6$$

$$\frac{3}{8} \times \frac{5}{6} = \frac{3 \times 5}{8 \times 6} = \frac{5}{16}$$

$$\frac{4}{39} \times \frac{13}{28} = \frac{4 \times 13}{39 \times 28} = \frac{1}{21}$$

$$\frac{5}{7} \times \frac{3}{4} = \frac{5 \times 3}{7 \times 4} = \frac{15}{28}$$

$$\frac{5}{9} \times \frac{18}{25} = \frac{5 \times 18}{9 \times 25} = \frac{2}{5}$$

$$\frac{3}{11} \times \frac{22}{39} = \frac{3 \times 22}{11 \times 39} = \frac{2}{13}$$

$$\frac{19}{20} \times \frac{1}{38} = \frac{19 \times 1}{20 \times 38} = \frac{1}{40}$$

### 第 5 页

$$2 \times \frac{4}{5} = \frac{2 \times 4}{5} = \frac{8}{5}$$

$$\frac{5}{9} \times 10 = \frac{5 \times 10}{9} = \frac{50}{9}$$

$$\frac{2}{3} \times \frac{2}{3} = \frac{2 \times 2}{3 \times 3} = \frac{4}{9}$$

$$\frac{8}{9} \times \frac{5}{6} = \frac{8 \times 5}{9 \times 6} = \frac{20}{27}$$

$$\frac{3}{4} \times \frac{3}{8} = \frac{3 \times 3}{4 \times 8} = \frac{9}{32}$$

$$\frac{6}{5} \times \frac{5}{3} = \frac{6 \times 5}{5 \times 3} = 2$$

$$\frac{7}{8} \times 14 = \frac{7}{8} \times \frac{7 \times 2}{1} = \frac{49}{4}$$

$$\frac{3}{7} \times \frac{5}{6} = \frac{3}{7} \times \frac{5}{6} = \frac{5}{14}$$

### 第 6 页

$$1. 1.5 \times \frac{3}{5} = 1.5 \times 0.6 = 0.9$$

$$1.5 \times \frac{3}{5} = \frac{3}{2} \times \frac{3}{5} = \frac{9}{10}$$





$$1.5 \times \frac{3}{5} = \frac{0.3}{1.5} \times \frac{3}{\frac{5}{1}} = 0.9$$

$$1.5 \times \frac{3}{5} = \frac{1.5 \times 3}{5} = 0.9$$

$$2. \frac{3}{4} \times 1.6 = \frac{3}{4} \times \frac{0.4}{1.6} = 1.2$$

$$0.14 \times \frac{1}{2} = \frac{0.07}{0.14} \times \frac{1}{\frac{2}{1}} = 0.07$$

$$3.5 \times \frac{1}{5} = 3.5 \times 0.2 = 0.7$$

$$\frac{5}{8} \times 0.6 = \frac{\frac{5}{8}}{\frac{8}{10}} \times \frac{3}{\frac{10}{1}} = \frac{3}{8}$$

$$2.8 \times \frac{5}{12} = \frac{28}{10} \times \frac{5}{\frac{12}{3}} = \frac{7}{6}$$

$$1.4 \times \frac{1}{4} = \frac{14}{10} \times \frac{1}{\frac{4}{2}} = \frac{7}{20}$$

$$2.5 \times \frac{4}{15} = \frac{25}{10} \times \frac{4}{\frac{15}{3}} = \frac{2}{3}$$

$$\frac{5}{13} \times 0.39 = \frac{5}{13} \times \frac{0.03}{0.39} = 0.15$$

$$6.5 \times \frac{2}{5} = \frac{1.3}{6.5} \times \frac{2}{\frac{5}{1}} = 2.6$$

第7页

$$1. \frac{1}{2} - \frac{1}{3} \times \frac{1}{4}$$

$$= \frac{1}{2} - \frac{1 \times 1}{3 \times 4}$$

$$= \frac{1}{2} - \frac{1}{12}$$

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

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

$$= (\frac{3}{6} - \frac{2}{6}) \times \frac{1}{4}$$

$$= \frac{1}{6} \times \frac{1}{4}$$

$$= \frac{1}{24}$$

$$\frac{5}{6} \times (\frac{1}{2} + \frac{1}{4})$$

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

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

$$2. \frac{2}{5} - \frac{2}{5} \times \frac{1}{2}$$

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

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

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

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

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

$$1 - \frac{5}{7} \times \frac{14}{15}$$

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

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

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

$$= \frac{2}{5} \times \frac{5}{4}$$

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

$$\frac{7}{9} \times (1 + \frac{4}{5})$$

$$= \frac{7}{9} \times \frac{9}{5}$$

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

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

$$= \frac{25}{7} + \frac{2}{7}$$

$$= \frac{27}{7}$$

第8页

$$1. \frac{3}{4} \times \frac{1}{7} \times 4$$

$$= \frac{3}{4} \times \frac{1}{4} \times \frac{1}{7}$$

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

$$\frac{2}{5} \times \frac{1}{4} \times \frac{5}{6}$$

$$= \frac{1}{\frac{2}{5} \times \frac{1}{4} \times \frac{5}{6}} = \frac{1}{\frac{1}{2}}$$

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

$$2. \frac{4}{9} \times \frac{3}{4} \times \frac{9}{13}$$

$$= \frac{1}{\frac{4}{9} \times \frac{3}{4} \times \frac{9}{13}} = \frac{1}{\frac{1}{13}}$$

$$= \frac{3}{13}$$

$$25 \times \frac{19}{50} \times 4$$

$$= 25 \times 4 \times \frac{19}{50}$$

$$= \frac{2}{100} \times \frac{19}{50}$$

$$= 38$$

$$\frac{8}{5} \times \frac{3}{4} \times \frac{5}{8}$$

$$= \frac{1}{\frac{8}{5} \times \frac{3}{4} \times \frac{5}{8}} = \frac{3}{4}$$

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

$$\frac{9}{11} \times \frac{7}{15} \times \frac{11}{3}$$

$$= \frac{1}{\frac{9}{11} \times \frac{7}{15} \times \frac{11}{3}} = \frac{1}{\frac{7}{5}}$$

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

$$\frac{4}{5} \times \frac{3}{8} \times \frac{5}{9}$$

$$= \frac{1}{\frac{4}{5} \times \frac{3}{8} \times \frac{5}{9}} = \frac{1}{\frac{1}{2}}$$

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

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

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

$$= \frac{1}{\frac{2}{3} \times 15 \times \frac{2}{5}} = \frac{1}{2}$$

$$= 4$$

第9页

$$1. 15 \times (\frac{1}{3} + \frac{1}{5})$$

$$= 15 \times \frac{1}{3} + 15 \times \frac{1}{5}$$

$$= 5 + 3$$

$$= 8$$

$$18 \times (\frac{1}{2} - \frac{7}{18})$$

$$= 18 \times \frac{1}{2} - 18 \times \frac{7}{18}$$

$$= 9 - 7$$

$$= 2$$

$$2. (\frac{2}{3} - \frac{1}{4}) \times 12$$

$$= \frac{2}{3} \times 12 - \frac{1}{4} \times 12$$

$$= 8 - 3$$

$$= 5$$

$$(\frac{1}{8} + \frac{1}{2}) \times 16$$

$$= \frac{1}{8} \times 16 + \frac{1}{2} \times 16$$

$$= 2 + 8$$

$$= 10$$

$$(\frac{1}{5} + \frac{7}{15}) \times 15$$

$$= \frac{1}{5} \times 15 + \frac{7}{15} \times 15$$

$$= 3 + 7$$

$$= 10$$

$$18 \times (\frac{5}{6} - \frac{2}{9})$$

$$= 18 \times \frac{5}{6} - 18 \times \frac{2}{9}$$

$$= 15 - 4$$

$$= 11$$





$$\begin{aligned} & \frac{21}{40} \times (\frac{2}{3} + \frac{2}{7}) \\ &= \frac{21}{40} \times \frac{2}{3} + \frac{21}{40} \times \frac{2}{7} \\ &= \frac{7}{20} + \frac{3}{20} \\ &= \frac{10}{20} \\ &= \frac{1}{2} \end{aligned}$$

$$\begin{aligned} & \frac{2}{3} \times (\frac{4}{5} + \frac{3}{2}) \\ &= \frac{2}{3} \times \frac{4}{5} + \frac{2}{3} \times \frac{3}{2} \\ &= \frac{8}{15} + 1 \\ &= 1\frac{8}{15} \end{aligned}$$

第 10 页

1.  $\frac{3}{8} \times 7 + \frac{3}{8} \times 9$

$$\begin{aligned} &= \frac{3}{8} \times (7+9) \\ &= \frac{3}{8} \times 16 \\ &= 6 \\ & \frac{5}{7} \times 6 + \frac{5}{7} \\ &= \frac{5}{7} \times 6 + \frac{5}{7} \times 1 \\ &= \frac{5}{7} \times (6+1) \\ &= 5 \end{aligned}$$

2.  $\frac{3}{7} \times \frac{4}{17} + \frac{4}{17} \times \frac{4}{7}$

$$\begin{aligned} &= (\frac{3}{7} + \frac{4}{7}) \times \frac{4}{17} \\ &= \frac{4}{17} \\ & \frac{3}{5} \times \frac{7}{19} + \frac{3}{5} \times \frac{12}{19} \\ &= \frac{3}{5} \times (\frac{7}{19} + \frac{12}{19}) \\ &= \frac{3}{5} \\ & \frac{2}{9} \times 6 + \frac{7}{9} \times 6 \\ &= (\frac{2}{9} + \frac{7}{9}) \times 6 \\ &= 6 \end{aligned}$$

$$\begin{aligned} & \frac{8}{13} \times 12 + \frac{8}{13} \\ &= \frac{8}{13} \times 12 + \frac{8}{13} \times 1 \\ &= \frac{8}{13} \times (12+1) \\ &= 8 \end{aligned}$$

$$\begin{aligned} & \frac{7}{11} \times 15 - \frac{7}{11} \times 4 \\ &= \frac{7}{11} \times (15-4) \\ &= 7 \\ & \frac{5}{8} + 7 \times \frac{5}{8} \\ &= (1+7) \times \frac{5}{8} \\ &= 5 \end{aligned}$$

第 11 页

1.  $17 \times \frac{9}{16}$

$$\begin{aligned} &= (16+1) \times \frac{9}{16} \\ &= 16 \times \frac{9}{16} + 1 \times \frac{9}{16} \\ &= 9 + \frac{9}{16} \\ &= 9\frac{9}{16} \end{aligned}$$

$$\begin{aligned} & 19 \times \frac{2}{9} \\ &= (18+1) \times \frac{2}{9} \\ &= 18 \times \frac{2}{9} + 1 \times \frac{2}{9} \\ &= 4 + \frac{2}{9} \\ &= 4\frac{2}{9} \end{aligned}$$

$$\begin{aligned} & 99 \times \frac{4}{25} \\ &= (100-1) \times \frac{4}{25} \\ &= 100 \times \frac{4}{25} - \frac{4}{25} \\ &= 16 - \frac{4}{25} \\ &= 15\frac{21}{25} \end{aligned}$$

$$\begin{aligned} & 15 \times \frac{3}{4} \\ &= (16-1) \times \frac{3}{4} \\ &= 16 \times \frac{3}{4} - \frac{3}{4} \\ &= 12 - \frac{3}{4} \\ &= 11\frac{1}{4} \end{aligned}$$

2.  $102 \times \frac{7}{20}$

$$\begin{aligned} &= (100+2) \times \frac{7}{20} \\ &= 100 \times \frac{7}{20} + 2 \times \frac{7}{20} \\ &= 35 + \frac{7}{10} \\ &= 35\frac{7}{10} \\ & 55 \times \frac{55}{56} \\ &= (56-1) \times \frac{55}{56} \\ &= 56 \times \frac{55}{56} - \frac{55}{56} \\ &= 55 - \frac{55}{56} \\ &= 54\frac{1}{56} \end{aligned}$$

第 12 页

$$\begin{aligned} & 9 \times \frac{7}{8} - \frac{7}{8} \\ &= (9-1) \times \frac{7}{8} \\ &= 8 \times \frac{7}{8} \\ &= 7 \\ & \frac{1}{5} \times \frac{1}{2} + \frac{1}{5} \times \frac{3}{4} - \frac{1}{5} \\ & \times \frac{1}{4} \\ &= \frac{1}{5} \times (\frac{1}{2} + \frac{3}{4} - \frac{1}{4}) \\ &= \frac{1}{5} \\ & 3 \times 5 \times (\frac{1}{3} - \frac{1}{5}) \\ &= 3 \times 5 \times \frac{1}{3} - 3 \times 5 \times \frac{1}{5} \\ &= 5 - 3 \\ &= 2 \end{aligned}$$

$$\begin{aligned} & 2014 \times \frac{2014}{2015} \\ &= (2015-1) \times \frac{2014}{2015} \\ &= 2015 \times \frac{2014}{2015} - \frac{2014}{2015} \\ &= 2014 - \frac{2014}{2015} \\ &= 2013\frac{1}{2015} \\ & (\frac{5}{9} + \frac{3}{4} + \frac{7}{12}) \times 36 \\ &= \frac{5}{9} \times 36 + \frac{3}{4} \times 36 + \frac{7}{12} \times 36 \\ &= 20 + 27 + 21 \\ &= 68 \end{aligned}$$

$$\begin{aligned} & \frac{7}{13} \times \frac{4}{11} \times 39 \times 22 \\ &= \frac{7}{13} \times 39 \times \frac{4}{11} \times 22 \\ &= 21 \times 8 \\ &= 168 \\ & \frac{3}{4} \times 2.4 \times \frac{5}{6} \\ &= \frac{3}{4} \times \frac{5}{6} \times 2.4 \\ &= 1.5 \end{aligned}$$

$$\begin{aligned} & \frac{3}{4} \times (4-2) \times \frac{1}{2} \\ &= \frac{3}{4} \times 2 \times \frac{1}{2} \\ &= \frac{3}{4} \end{aligned}$$

第 13 页

$$\begin{aligned} & (\frac{5}{6} + \frac{5}{7}) \times 42 \\ &= \frac{5}{6} \times 42 + \frac{5}{7} \times 42 \\ &= 35 + 30 \\ &= 65 \\ & (\frac{5}{6} + \frac{3}{5} + \frac{11}{12}) \times 60 \\ &= \frac{5}{6} \times 60 + \frac{3}{5} \times 60 + \frac{11}{12} \times 60 \\ &= 50 + 36 + 55 \\ &= 141 \end{aligned}$$

