

乘法分配率（整体分配、构造公因数、二次提取）

练习题

一、整体分配

$$(\frac{1}{2} + \frac{1}{4}) \times 4 \times 8$$

$$(\frac{2}{3} + \frac{5}{9}) \times 9 \times 15$$

$$(\frac{1}{9} + \frac{5}{2}) \times 18 \times 8$$

$$(\frac{3}{15} + \frac{12}{30}) \times 30 \times 5$$

$$(\frac{1}{36} + \frac{1}{54}) \times 18 \times 9$$

$$(\frac{2}{7} + \frac{5}{14}) \times 42 \times 28$$

二、构造公因数

$$\frac{10}{11} \times \frac{7}{3} + \frac{7}{11} \times \frac{1}{3}$$

$$\frac{1}{12} \times \frac{5}{8} + \frac{5}{12} \times \frac{7}{8}$$

$$\frac{1}{3} \times \frac{8}{13} + \frac{1}{13} \times \frac{5}{3}$$

$$\frac{3}{4} \times \frac{15}{8} + \frac{1}{4} \times \frac{3}{8}$$

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

$$3.2 \times \frac{1}{8} + 32 \times 0.0875$$

三、二次提取

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

$$\frac{1}{2} \times \frac{2}{3} + \frac{1}{2} \times \frac{1}{4} + \frac{11}{12} \times \frac{1}{6}$$

$$\frac{4}{15} \times \frac{3}{7} + \frac{4}{15} \times \frac{2}{21} + \frac{11}{21} \times \frac{17}{15}$$

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练习题答案

一、整体分配

$$\left(\frac{1}{2} + \frac{1}{4}\right) \times 4 \times 8 = 24 \quad \left(\frac{2}{3} + \frac{5}{9}\right) \times 9 \times 15 = 165 \quad \left(\frac{1}{9} + \frac{5}{2}\right) \times 18 \times 8 = 376$$

$$\left(\frac{3}{15} + \frac{12}{30}\right) \times 30 \times 5 = 90 \quad \left(\frac{1}{36} + \frac{1}{54}\right) \times 18 \times 9 = \frac{15}{2} \quad \left(\frac{2}{7} + \frac{5}{14}\right) \times 42 \times 28 = 756$$

二、构造公因数

$$\frac{10}{11} \times \frac{7}{3} + \frac{7}{11} \times \frac{1}{3} = \frac{7}{3} \quad \frac{1}{12} \times \frac{5}{8} + \frac{5}{12} \times \frac{7}{8} = \frac{5}{12} \quad \frac{1}{3} \times \frac{8}{13} + \frac{1}{13} \times \frac{5}{3} = \frac{1}{3}$$

$$\frac{3}{4} \times \frac{15}{8} + \frac{1}{4} \times \frac{3}{8} = \frac{3}{2} \quad \frac{1}{4} \times \frac{3}{5} + \frac{3}{4} \times \frac{7}{5} = \frac{6}{5} \quad 3.2 \times \frac{1}{8} + 32 \times 0.0875 = 3.2$$

三、二次提取

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

$$\frac{1}{2} \times \frac{2}{3} + \frac{1}{2} \times \frac{1}{4} + \frac{11}{12} \times \frac{1}{6} = \frac{22}{36}$$

$$\frac{4}{15} \times \frac{3}{7} + \frac{4}{15} \times \frac{2}{21} + \frac{11}{21} \times \frac{17}{15} = \frac{11}{15}$$