

Bài tập toán 5: Luyện tập tính toán phân số

Bài 1. Thực hiện phép tính:

$$\text{a) } \frac{17}{12} - \left(\frac{7}{12} + \frac{2}{3} \right); \text{ b) } \frac{47}{100} - \left(\frac{21}{50} + \frac{1}{4} \right); \text{ c) } \frac{8}{9} - \frac{3}{15} + \frac{2}{18} - \frac{2}{5}; \text{ d) } \frac{15 - \frac{15}{7} - \frac{15}{12}}{3 - \frac{3}{7} - \frac{3}{12}}$$

Bài 2. Tính nhanh:

$$\text{a) } \frac{1}{4} + \frac{2}{5} + \frac{6}{8} + \frac{9}{15} + \frac{8}{1}$$
$$\text{b) } \frac{7}{5} + \frac{4}{9} + \frac{26}{10} + \frac{12}{5} + \frac{9}{15} + \frac{10}{18}$$
$$\text{c) } \frac{4}{6} + \frac{7}{13} + \frac{17}{9} + \frac{14}{6} + \frac{19}{13} + \frac{19}{9}$$

Bài 3. Tính:

$$\text{a) } \frac{9}{10} : \frac{4}{5} : \frac{5}{4}; \quad \text{b) } \frac{9}{10} : \frac{4}{5} \times \frac{5}{4}; \quad \text{c) } \left(\frac{2}{7} + \frac{3}{8} + \frac{12}{7} + \frac{5}{8} \right) \times \frac{19}{63};$$
$$\text{d) } \left(\frac{2}{15} - \frac{1}{20} + \frac{3}{15} - \frac{9}{20} + \frac{2}{3} \right) : \frac{3}{4}; \quad \text{e) } \left(\frac{1}{2} - \frac{1}{3} + \frac{1}{4} \times \frac{1}{5} \right) : \frac{1}{6}; \quad \text{f) } \left(\frac{63}{64} : \frac{7}{32} \right) : \left(\frac{6}{7} : \frac{1}{7} \right)$$

Bài 4. Tính

$$\text{a) } \frac{14}{25} \times \frac{2}{5} + \frac{7}{25} \times \frac{2}{5} + \frac{4}{25} \times \frac{2}{5}$$
$$\text{b) } \left(\frac{3}{6} - \frac{3}{8} \right) \times \frac{1}{3}$$
$$\text{c) } \left(\frac{32}{35} - \frac{3}{10} \right) : \frac{4}{5}$$
$$\text{d) } \frac{6}{11} : \frac{2}{3} + \frac{5}{11} : \frac{2}{3}$$
$$\text{e) } \frac{3}{2} + \frac{3}{4} + \frac{3}{8} + \frac{3}{16} + \frac{3}{32} + \frac{3}{64} + \frac{3}{128}$$
$$\text{f) } \frac{1}{2} \times \frac{17}{5} \times \frac{1}{6} + \frac{1}{3} \times \frac{71}{5} \times \frac{1}{4} - \frac{1}{12} \times \frac{28}{5}$$
$$\text{g) } \frac{1}{10} + \frac{4}{20} + \frac{9}{30} + \frac{6}{40} + \frac{25}{50} + \frac{36}{60} + \frac{49}{70} + \frac{64}{80} + \frac{81}{90}$$

$$h) \frac{18}{15} \times \left(\frac{2525}{3636} + \frac{1515}{1818} - \frac{2020}{7272} \right)$$

Bài 5. Tìm x:

$$a) \frac{x}{4} = \frac{15}{20} ; \quad b) \frac{3}{8} = \frac{x}{56} ; \quad c) \frac{7}{x} = \frac{21}{12} ; \quad d) \frac{8}{11} = \frac{32}{x}$$

$$e) \frac{x}{9} = \frac{16}{x} ; \quad f) \frac{9}{x} = \frac{x}{25}; \quad g) \frac{3}{10} + x + \frac{11}{30} = \frac{3}{4}; \quad h) x - \frac{1}{8} - \frac{2}{9} = \frac{47}{72}$$

$$i) \frac{100-x+5 \times 2}{4} - 5 = 0; \quad k) \left(\frac{1}{2} \times \frac{2}{3} \times \frac{3}{4} \times \frac{4}{5} \right) : x = \frac{1 \times 2 \times 3 \times 4}{5 \times 6 \times 7 \times 8}$$

$$l) \frac{x}{13} + \frac{15}{26} = \frac{46}{52}; \quad m) \frac{x}{27} + \frac{2}{9} = \frac{6}{18}; \quad n) \frac{4}{3} + \frac{14}{x} = \frac{2}{5}$$

Bài tập về nhà:

$$\text{Bài 1. Tính} \quad a) 3 - \frac{4}{3} - \frac{10}{6} ; \quad b) \frac{34}{50} - \frac{3}{8} + \frac{1}{4}; \quad c) \frac{1}{2} + \frac{1}{4} + \frac{1}{8} + \frac{1}{16} + \frac{1}{32}$$

$$d) \frac{1}{3} + \frac{1}{6} + \frac{1}{12} + \frac{1}{24} + \frac{1}{48}; \quad e) \frac{2}{5} \times \frac{3}{2} - \frac{3}{8} : \frac{5}{6} + \frac{17}{20} ; \quad f) \frac{2}{5} \times \left(\frac{3}{2} - \frac{3}{8} : \frac{5}{6} \right) + \frac{17}{20}$$

$$g) \frac{1}{2} \times \left(1 - \frac{1}{3} \right) \times \left(1 - \frac{1}{4} \right) \times \left(1 - \frac{1}{5} \right) \times \left(1 - \frac{1}{6} \right); \quad h) \frac{1}{24} \times \frac{13}{8} - \frac{1}{4} \times \frac{3}{8} \times \frac{1}{6} - \frac{1}{8} \times \frac{1}{8} \times \frac{1}{3}$$

$$i) \frac{5}{6} \times \frac{1}{3} + \frac{1}{2} \times \frac{3}{5} \times \frac{5}{3}; \quad k) \frac{2}{9} : \frac{1}{3} + \frac{7}{18} : \frac{1}{3} - \frac{1}{2} : \frac{1}{3}$$

Bài 2. Điền dấu (> ; = ; <) thích hợp vào chỗ chấm

$$a) \frac{4}{7} \times \frac{7}{4} \dots \frac{2}{3} \times \frac{3}{2}; \quad b) \frac{2}{5} \times 3 \dots \frac{1}{5} \times 4; \quad c) \frac{8}{9} : \frac{3}{2} \dots \frac{2}{3} \times \frac{9}{10}$$

$$d) \frac{5}{4} : \frac{1}{2} + \frac{3}{4} : \frac{1}{2} \dots 2 : \frac{1}{2}$$

Bài 3. Tìm phân số $\frac{a}{b}$

$$a) \frac{a}{b} \times \frac{3}{5} = \frac{7}{8}; \quad b) \frac{a}{b} : \frac{5}{9} = \frac{3}{10}; \quad c) \frac{4}{15} : \frac{a}{b} = \frac{2}{3}$$

$$\text{Bài 4. Tính nhanh:} \quad a) \frac{1}{2} + \frac{2}{4} + \frac{3}{6} + \frac{4}{8} + \frac{5}{10} + \frac{6}{12} + \frac{7}{14} + \frac{8}{16} + \frac{9}{18} + \frac{10}{20}$$

$$b) \frac{2}{7} \times \frac{31}{43} \times \frac{7}{2} \quad c) \frac{5 \times 7 \times 9 \times 12}{9 \times 5 \times 11 \times 7}$$

$$d) \left(\frac{1}{2} + \frac{2}{3} - \frac{3}{4}\right) \times \frac{4}{5} : \frac{5}{6}$$

Bài 5. Tìm a biết a là số tự nhiên

$$\left(\frac{6}{7} + \frac{1}{4}\right) : \left(\frac{19}{14} - \frac{1}{4}\right) < a < \frac{7}{3}$$

Bài 6. Tìm x:

$$a) \frac{42}{25} : \frac{x}{5} = \frac{6}{5}; \quad b) \frac{24}{x} : \frac{8}{3} = \frac{3}{5}$$

$$c) \frac{5}{x} \times \frac{6}{25} = \frac{1}{15}$$

Bài 7. Tìm A:

$$a) A = \frac{123}{150} - \frac{72}{91} + \frac{27}{150} - \frac{19}{91}$$

$$b) \frac{3}{8} + \left(A - \frac{5}{24}\right) : \frac{2}{3} = 1$$