

Parasto daļu reizināšana un dalīšana

Daļas paplašināšana: $\frac{2}{3} = \frac{4}{6} = \frac{12}{18}$; $5 = \frac{5}{1} = \frac{20}{4}$.

Daļas saīsināšana: $\frac{24}{36} = \frac{12}{18} = \frac{2}{3}$; $12 \frac{21}{63} = 12 \frac{1}{3}$.

Jaukta skaitļa pārveidošana neīstā daļā: $2\frac{3}{8} = \frac{8 \cdot 2 + 3}{8} = \frac{19}{8}$

Veselā izslēgšana: $\frac{19}{8} = 19 : 8 = 2\frac{3}{8}$ (2 veseli, atlikumā 3 – raksta skaitītājā; saucējs paliek nemainīgs)

$$\frac{a}{b} \cdot \frac{c}{d} = \frac{a \cdot c}{b \cdot d}$$

$$\frac{2}{3} \cdot \frac{4}{5} = \frac{2 \cdot 4}{3 \cdot 5} = \frac{8}{15}$$

$$\frac{2}{4} \cdot \frac{3}{9} = \frac{11 \cdot 8^2}{4 \cdot 9} = \frac{22}{9} = 2\frac{4}{9}$$

$$\frac{a}{b} \cdot c = \frac{a \cdot c}{b}, \text{ jo } c = \frac{c}{1}$$

$$\frac{4}{21} \cdot 3 = \frac{4 \cdot 3}{21} = \frac{4}{7}$$

$$2\frac{3}{5} \cdot 4 = \frac{13 \cdot 4}{5} = \frac{52}{5} = 10\frac{2}{5} \text{ vai } 2\frac{3}{5} \cdot 4 = 2 \cdot 4 + \frac{3}{5} \cdot 4 = 8\frac{12}{5} = 10\frac{2}{5}$$

$$\frac{a}{b} : \frac{c}{d} = \frac{a \cdot d}{b \cdot c}$$

$$\frac{8}{9} : \frac{2}{3} = \frac{8 \cdot 3}{9 \cdot 2} = \frac{4}{3} = 1\frac{1}{3}$$

$$\frac{a}{b} : c = \frac{a}{b \cdot c}, \text{ jo } c = \frac{c}{1}$$

$$\frac{10}{13} : 3 = \frac{10}{13 \cdot 3} = \frac{10}{39}$$

$$c : \frac{a}{b} = \frac{c \cdot b}{a}, \text{ jo } c = \frac{c}{1}$$

$$5 : \frac{2}{7} = \frac{5 \cdot 7}{2} = \frac{35}{2} = 17\frac{1}{2}$$

$$\frac{4}{21} \cdot 3 = \frac{4}{21} \cdot \frac{3}{1} = \frac{4 \cdot 3}{21 \cdot 1} = \frac{4}{7}$$

$$\frac{4}{21} : 3 = \frac{4}{21} : \frac{3}{1} = \frac{4}{21} \cdot \frac{1}{3} = \frac{4 \cdot 1}{21 \cdot 3} = \frac{4}{63}$$

$$3 : \frac{4}{21} = \frac{3}{1} : \frac{4}{21} = \frac{3}{1} \cdot \frac{21}{4} = \frac{63}{4} = 15\frac{3}{4}$$

Reizināšana

skaitītājs • skaitītājs
saucējs • saucējs

$$\textcircled{1} \frac{2}{3} \cdot \frac{9}{16} = \frac{2 \cdot 9}{3 \cdot 16} = \frac{3}{8}$$

$$\textcircled{2} 16 \cdot \frac{2}{8} = \frac{16 \cdot 2}{1 \cdot 8} = \frac{16 \cdot 2}{1 \cdot 8} = \frac{4}{1} = 4$$

$$\textcircled{3} 3\frac{1}{8} \cdot \frac{4}{5} = \frac{25}{8} \cdot \frac{4}{5} = \frac{25 \cdot 4}{8 \cdot 5} = \frac{15}{1} = 15$$

Dalīšana

skaitītājs • saucējs
saucējs • skaitītājs

$$\textcircled{1} \frac{3}{7} : \frac{5}{14} = \frac{3 \cdot 14}{7 \cdot 5} = \frac{6}{5} = 1\frac{1}{5}$$

$$\textcircled{2} 2\frac{1}{3} : \frac{1}{6} = \frac{7}{3} : \frac{1}{6} = \frac{7 \cdot 6}{3 \cdot 1} = \frac{14}{1} = 14$$

Atceries! Reizinot, dalot vai kāpinot jauktus skaitļus, tie vispirms jāpārveido neīstā daļā!!!