

ÇÖZÜMLER

1. Aşağıda verilen işlemlerin sonuçlarını en sade halleriyle bulunuz.

$$\frac{1}{3} \cdot \frac{2}{10} = \frac{2}{30} = \frac{1}{15}$$

$$\frac{7}{34} \cdot \frac{17}{21} = \frac{1}{6}$$

$$\frac{16}{11} \cdot \frac{33}{24} = \frac{3}{4}$$

$$\frac{1}{2} \cdot \frac{2}{3} \cdot \frac{3}{4} \cdot \frac{4}{5} = \frac{1}{5}$$

$$\frac{21}{15} \cdot \frac{8}{40} \cdot \frac{30}{7} = \frac{6}{5}$$

$$\frac{8}{100} \cdot \frac{25}{36} \cdot \frac{48}{32} = \frac{1}{12}$$

$$\frac{12}{1} \cdot \frac{1}{4} = 3$$

$$\frac{1}{6} \cdot \frac{5}{42} = \frac{5}{252}$$

$$2 \cdot \frac{3}{5} \cdot \frac{10}{1} = \frac{13}{8} \cdot \frac{10}{1} = 26$$

$$5 \cdot \frac{4}{9} \cdot \frac{15}{14} = \frac{40}{9} \cdot \frac{15}{14} = \frac{35}{6}$$

$$\frac{22}{75} \cdot \frac{80}{33} \cdot \frac{50}{64} = \frac{5}{9}$$

2. Aşağıda verilen işlemlerin sonuçlarını en sade halleriyle bulunuz.

$$\frac{5}{6} : \frac{10}{3} = \frac{5}{6} \cdot \frac{3}{10} = \frac{1}{4}$$

$$\frac{4}{9} : \frac{12}{9} = \frac{4}{9} \cdot \frac{9}{12} = \frac{1}{3}$$

$$\frac{35}{16} : \frac{25}{20} = \frac{35}{16} \cdot \frac{20}{25} = \frac{7}{4}$$

$$\frac{14}{18} : \frac{21}{36} = \frac{14}{18} \cdot \frac{36}{21} = \frac{4}{3}$$

$$5 : \frac{1}{3} = \frac{5}{1} \cdot \frac{3}{1} = 15$$

$$7 : \frac{7}{5} = \frac{7}{1} \cdot \frac{5}{7} = 5$$

$$10 : \frac{10}{13} = \frac{10}{1} \cdot \frac{13}{10} = 13$$

$$\frac{1}{8} : \frac{1}{8} = \frac{1}{8} \cdot \frac{8}{1} = 1$$

$$\frac{1}{5} : \frac{1}{15} = \frac{1}{5} \cdot \frac{15}{1} = 3$$

$$\frac{1}{2} : \frac{11}{2} = \frac{1}{2} \cdot \frac{2}{11} = \frac{1}{11}$$

$$3 \cdot \frac{4}{9} : \frac{62}{27} = \frac{3}{1} \cdot \frac{4}{9} \cdot \frac{27}{62} = \frac{3}{2}$$

$$5 \cdot \frac{5}{6} : \frac{14}{12} = \frac{5}{1} \cdot \frac{5}{6} \cdot \frac{12}{14} = 5$$

matematiktek

3. Aşağıdaki boşluklara < , > sembollerinden uygun olanı yazınız.

- $15 \cdot \frac{14}{17} < \dots 15$
- $19 \cdot \frac{5}{3} > \dots 19$
- $37 \cdot \frac{19}{20} < \dots 37$
- $100 \cdot \frac{9}{4} > \dots 100$

4. Aşağıda verilen işlemlerin sonuçlarını en sade halleriyle bulunuz.

$$\left(\frac{1}{2} + \frac{1}{3} \right) \cdot \frac{12}{5}$$

$\frac{3+2}{6} = \frac{5}{6}$ $\frac{5}{6} \cdot \frac{12}{5} = 2$

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

$\frac{6-1}{4} = \frac{5}{4}$ $\frac{5}{4} \cdot \frac{5}{2} = \frac{25}{8}$

$$\left(5 + \frac{1}{2} \right) \cdot \left(5 - \frac{1}{2} \right)$$

$\frac{11}{2} \cdot \frac{9}{2} = \frac{99}{4}$

$$\frac{1}{3} + \frac{4}{5} \cdot \frac{15}{8}$$

$\frac{1}{3} + \frac{3}{2} = \frac{2+9}{6} = \frac{11}{6}$

5. Aşağıdaki boşluklara "<" , ">" sembollerinden uygun olanı yazınız.

- $15 : \frac{1}{2} > \dots 15$
- $19 : \frac{2}{5} > \dots 19$
- $37 : \frac{7}{6} < \dots 37$
- $100 : \frac{10}{9} < \dots 100$

6. Aşağıda verilen işlemlerin sonuçlarını en sade halleriyle bulunuz.

$$15 : \left(\frac{1}{2} - \frac{1}{5} \right)$$

$\frac{5-2}{10} = \frac{3}{10}$
 $\frac{15}{1} \cdot \frac{10}{3} = \frac{150}{3} = 50$

$$\frac{5}{4} : \left(\frac{7}{12} + \frac{2}{3} \right)$$

$\frac{7+8}{12} = \frac{15}{12}$
 $\frac{18}{4} \cdot \frac{4}{15} = 1$

$$\left(1 + \frac{1}{2} \right) : \left(1 - \frac{1}{2} \right)$$

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

$$\left(\frac{3}{4} \cdot \frac{1}{9} \right) : \frac{1}{2}$$

$\frac{3}{36} : \frac{1}{2} = \frac{3}{36} \cdot \frac{2}{1} = \frac{6}{36} = \frac{1}{6}$