

Rozšiřování a krácení zlomků

1. Rozšiř zlomky číslem v závorce:

a)

$$\frac{7}{9}(8) = \frac{56}{72}$$

$$\frac{1}{7}(3) = \frac{3}{21}$$

$$\frac{3}{8}(2) = \frac{6}{16}$$

b)

$$\frac{1}{6}(8) = \frac{8}{48}$$

$$\frac{3}{8}(6) = \frac{18}{48}$$

$$\frac{7}{8}(6) = \frac{42}{48}$$

c)

$$\frac{3}{6}(3) = \frac{9}{18}$$

$$\frac{7}{9}(8) = \frac{56}{72}$$

$$\frac{7}{9}(8) = \frac{56}{72}$$

2. Rozšiř trojice zlomků pod sebou na společného jmenovatele:

a)

$$\frac{2}{9} = \frac{80}{360}$$

$$\frac{1}{8} = \frac{45}{360}$$

$$\frac{4}{5} = \frac{288}{360}$$

b)

$$\frac{2}{3} = \frac{20}{30}$$

$$\frac{9}{10} = \frac{27}{30}$$

$$\frac{2}{3} = \frac{20}{30}$$

c)

$$\frac{6}{7} = \frac{90}{105}$$

$$\frac{3}{5} = \frac{63}{105}$$

$$\frac{2}{3} = \frac{70}{105}$$

3. Dopln chybějící čísla tak, aby platily rovnosti:

a)

$$\frac{8}{9} = \frac{32}{36}$$

$$\frac{3}{4} = \frac{12}{16}$$

$$\frac{6}{7} = \frac{48}{56}$$

b)

$$\frac{2}{4} = \frac{6}{12}$$

$$\frac{5}{7} = \frac{40}{56}$$

$$\frac{4}{6} = \frac{16}{24}$$

c)

$$\frac{2}{9} = \frac{10}{45}$$

$$\frac{5}{9} = \frac{20}{36}$$

$$\frac{4}{9} = \frac{12}{27}$$

4. Zkrat zlomky na základní tvar:

a)

$$\frac{6}{30} = \frac{1}{5}$$

$$\frac{64}{72} = \frac{8}{9}$$

$$\frac{5}{40} = \frac{1}{8}$$

b)

$$\frac{12}{18} = \frac{2}{3}$$

$$\frac{6}{24} = \frac{1}{4}$$

$$\frac{10}{15} = \frac{2}{3}$$

c)

$$\frac{18}{36} = \frac{1}{2}$$

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

$$\frac{9}{36} = \frac{1}{4}$$

5. Zkrat zlomky na základní tvar:

a)

$$\frac{12}{48} = \frac{1}{4}$$

$$\frac{85}{136} = \frac{5}{8}$$

$$\frac{5}{10} = \frac{1}{2}$$

b)

$$\frac{55}{77} = \frac{5}{7}$$

$$\frac{33}{99} = \frac{1}{3}$$

$$\frac{11}{77} = \frac{1}{7}$$

c)

$$\frac{65}{78} = \frac{5}{6}$$

$$\frac{15}{105} = \frac{1}{7}$$

$$\frac{22}{66} = \frac{1}{3}$$