

re. ro měř. práce

-1-

Výsledky nepřesahujícím!

$$\frac{6}{10}$$

$$\frac{5}{4}$$

$$\frac{12}{15}$$

$$\frac{11}{24}$$

$$\frac{15}{17}$$

$$\frac{20}{56}$$

$$\frac{4}{9}$$

$$\frac{4}{10}$$

$$\frac{14}{21}$$

$$\frac{13}{22}$$

$$\frac{15}{22}$$

$$\frac{20}{27}$$

$$\frac{33}{91}$$

$$\frac{13}{39}$$

$$\frac{6}{90}$$

6. Upravte zlomky do základního tvaru.

$$\frac{6}{10} = \frac{3}{5}$$

$$\frac{6}{9} = \frac{2}{3}$$

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

$$\frac{20}{70} = \frac{2}{7}$$

$$\frac{9}{27} = \frac{1}{3}$$

$$\frac{16}{22} = \frac{8}{11}$$

7. Rozšiřte zlomky se jmenovatelem :

a) 50  $\frac{1}{2} = \frac{25}{50}$

$$\frac{8}{25} = \frac{16}{50}$$

$$\frac{7}{5} = \frac{70}{50}$$

b) 200  $\frac{7}{5} = \frac{280}{200}$

$$\frac{12}{10} = \frac{240}{200}$$

$$\frac{4}{25} = \frac{32}{100}$$

8. Upravte zlomky na základní tvar.

$$\frac{28}{70} = \frac{4}{10} = \frac{2}{5}$$

$$\frac{80}{128} = \frac{40}{64} = \frac{20}{32} = \frac{10}{16} = \frac{5}{8}$$

$$\frac{65}{105} = \frac{13}{21}$$

$$\frac{72}{144} = \frac{36}{72} = \frac{1}{2}$$

$$\frac{300}{525} = \frac{60}{105} = \frac{12}{21} = \frac{4}{7}$$

$$\frac{840}{960} = \frac{84}{96} = \frac{42}{48} = \frac{21}{24} = \frac{7}{8}$$

$$\frac{64}{144} = \frac{32}{72} = \frac{16}{36} = \frac{8}{18} = \frac{4}{9}$$

9. Porovnejte zlomky pomocí znamének <, >, =.

a)  $\frac{1}{4} < \frac{2}{4}$

b)  $\frac{7}{3} > \frac{5}{3}$

c)  $\frac{6}{11} < \frac{9}{11}$

d)  $\frac{14}{17} > \frac{7}{17}$

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

$$\frac{1}{6} < \frac{3}{6}$$

$$\frac{11}{15} > \frac{2}{15}$$

$$\frac{3}{8} < \frac{7}{8}$$

1. Rozšiřte zlomky.

a) číslem 2

$$\frac{1}{2} = \frac{2}{4}$$

$$\frac{5}{7} = \frac{10}{14}$$

$$\frac{10}{9} = \frac{20}{18}$$

$$\frac{13}{8} = \frac{26}{16}$$

$$\frac{15}{47} = \frac{30}{94}$$

$$\frac{31}{18} = \frac{62}{36}$$

b) číslem 6

$$\frac{5}{6} = \frac{30}{36}$$

$$\frac{9}{10} = \frac{54}{60}$$

$$\frac{7}{9} = \frac{42}{54}$$

$$\frac{11}{10} = \frac{66}{60}$$

$$\frac{12}{5} = \frac{72}{30}$$

$$\frac{13}{20} = \frac{78}{120}$$

c) číslem 7

$$\frac{2}{3} = \frac{14}{21}$$

$$\frac{7}{10} = \frac{49}{70}$$

$$\frac{4}{5} = \frac{28}{35}$$

$$\frac{2}{13} = \frac{14}{91}$$

$$\frac{14}{17} = \frac{98}{119}$$

$$\frac{50}{100} = \frac{350}{700}$$

2. Upravte rozšiřováním na desetinné zlomky se jmenovatelem 100.

$$\frac{1 \cdot 50}{2 \cdot 50} = \frac{50}{100}$$

$$\frac{13 \cdot 5}{20 \cdot 5} = \frac{65}{100}$$

$$\frac{4 \cdot 20}{5 \cdot 20} = \frac{80}{100}$$

$$\frac{3 \cdot 25}{4 \cdot 25} = \frac{75}{100}$$

$$\frac{19 \cdot 4}{25 \cdot 4} = \frac{76}{100}$$

$$\frac{11 \cdot 2}{50 \cdot 2} = \frac{22}{100}$$

3. Upravte rozšiřováním na desetinné zlomky se jmenovatelem 1 000.

$$\frac{30 \cdot 4}{250 \cdot 4} = \frac{120}{1000}$$

$$\frac{1 \cdot 125}{8 \cdot 125} = \frac{125}{1000}$$

$$\frac{39 \cdot 10}{100 \cdot 10} = \frac{390}{1000}$$

$$\frac{7 \cdot 2}{500 \cdot 2} = \frac{14}{1000}$$

$$\frac{14 \cdot 20}{50 \cdot 20} = \frac{280}{1000}$$

$$\frac{1 \cdot 25}{40 \cdot 25} = \frac{25}{1000}$$

4. Upravte zlomky krácením na základní tvar.

$$\frac{4}{18} = \frac{2}{9}$$

$$\frac{15}{6} = \frac{5}{2}$$

$$\frac{14}{21} = \frac{2}{3}$$

$$\frac{6}{28} = \frac{3}{14}$$

$$\frac{10}{100} = \frac{1}{10}$$

$$\frac{33}{44} = \frac{3}{4}$$

$$\frac{9}{81} = \frac{1}{9}$$

$$\frac{14}{49} = \frac{2}{7}$$

$$\frac{25}{30} = \frac{5}{6}$$