

Stejný jmenovatel zlomků

5 Zkontroluj, zda Pepa doplnil číslo správně. Piš *ano* – *ne*, chyby oprav:

a) $\frac{6}{7} = \frac{18}{21}$ ✓

b) $\frac{1}{4} = \frac{14}{42}$ ✗ $\frac{14}{56}$

c) $\frac{11}{5} = \frac{55}{5}$ ✗ $\frac{55}{25}$

d) $\frac{3}{5} = \frac{9}{25}$ ✗ $\frac{9}{15} \cdot \frac{15}{25}$

e) $\frac{9}{6} = \frac{54}{30}$ ✗ $\frac{54}{36} \cdot \frac{45}{30}$

f) $\frac{9}{10} = \frac{900}{1000}$ ✓

6 Urči číslo x tak, aby platilo:

$$\text{a) } \frac{3}{5} = \frac{x}{15} \quad x=9$$

(Handwritten: arrow from 5 to 15 with multiplier 3)

$$\text{b) } \frac{7}{4} = \frac{x}{28} \quad x=49$$

(Handwritten: arrow from 4 to 28 with multiplier 7)

$$\text{c) } \frac{11}{12} = \frac{x}{60} \quad x=55$$

(Handwritten: arrow from 12 to 60 with multiplier 5)

$$\text{d) } \frac{4}{3} = \frac{20}{x} \quad x=15$$

(Handwritten: arrow from 3 to 20 with multiplier 5)

$$\text{e) } \frac{8}{5} = \frac{48}{x} \quad x=30$$

(Handwritten: arrow from 5 to 48 with multiplier 6)

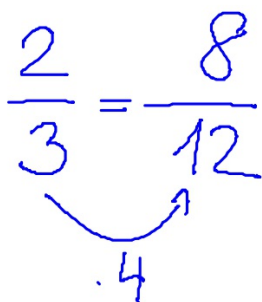
$$\text{f) } \frac{5}{17} = \frac{40}{x} \quad x=136$$

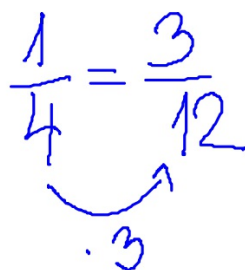
(Handwritten: arrow from 17 to 40 with multiplier 8)

$$\frac{2}{3} = \frac{8}{12}$$

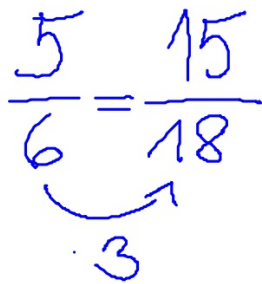
$$\frac{1}{4} = \frac{3}{12}$$

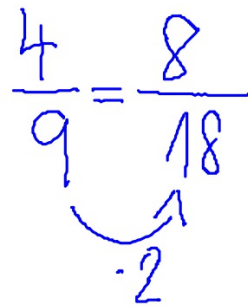
Zlomky $\frac{2}{3}$ a $\frac{1}{4}$ jsme převedli na zlomky se *společným jmenovatelem* 12.

$$\frac{2}{3} = \frac{8}{12}$$


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


10 Zlomky $\frac{5}{6}$ a $\frac{4}{9}$ převed' na zlomky se společným jmenovatelem 18.

$$\frac{5}{6} = \frac{15}{18}$$


$$\frac{4}{9} = \frac{8}{18}$$


11 Zlomky $\frac{3}{14}$ a $\frac{2}{21}$ převed' na zlomky se společným jmenovatelem 42.

$$\frac{3}{14} = \frac{9}{42}$$

A curved arrow points from the denominator 14 to the denominator 42, with the number 3 written below it, indicating multiplication by 3.

$$\frac{2}{21} = \frac{4}{42}$$

A curved line is drawn under the denominator 21, with the number 2 written below it, indicating multiplication by 2.

Pro přemýšlivé

Zlomky $\frac{2}{9}$ a $\frac{1}{6}$ převed' na zlomky se společným jmenovatelem. Kolik je možností?

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

$\cdot 2$

$$\frac{1}{6} = \frac{3}{18}$$

$\cdot 3$

$$\frac{2}{9} = \frac{12}{54}$$

$\cdot 6$

$$\frac{1}{6} = \frac{9}{54}$$

$\cdot 9$

$$\frac{2}{9} = \frac{8}{36}$$

$\cdot 4$

$$\frac{1}{6} = \frac{6}{36}$$

$\cdot 6$

D.Ú:

Písmeno x nahraď takovým číslem, aby platila rovnost:

a) $\frac{1}{3} = \frac{x}{6}$
 $\frac{5}{9} = \frac{x}{36}$
 $\frac{2}{3} = \frac{x}{12}$
 $\frac{5}{6} = \frac{x}{18}$

b) $\frac{4}{9} = \frac{12}{x}$
 $\frac{5}{4} = \frac{20}{x}$
 $\frac{3}{8} = \frac{24}{x}$
 $\frac{2}{3} = \frac{8}{x}$

c) $\frac{2}{5} = \frac{4}{x}$
 $\frac{8}{15} = \frac{x}{60}$
 $\frac{3}{4} = \frac{x}{60}$
 $\frac{7}{8} = \frac{42}{x}$

d) $\frac{1}{3} = \frac{3}{x}$
 $\frac{2}{9} = \frac{x}{36}$
 $\frac{7}{3} = \frac{x}{21}$
 $\frac{5}{12} = \frac{25}{x}$

D.Ú:

1. Rozšiř dané zlomky:

a) třemi

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

$$\frac{3}{7} =$$

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

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

b) čtyřmi

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

$$\frac{3}{8} =$$

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

$$\frac{5}{11} =$$

c) šesti

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

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

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

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

d) deseti

$$\frac{3}{8} =$$

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

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

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