RAZLOMCI I DECIMALNI BROJEVI

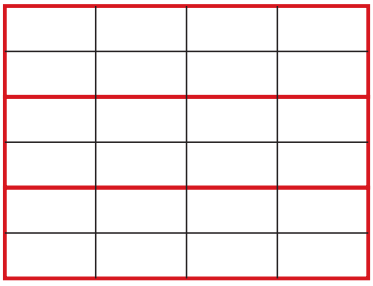
5

5.1. UVOĐENJE RAZLOMAKA

Zadatak 1.

Podijeli pravokutnike:

a) na 3 jednaka dijela



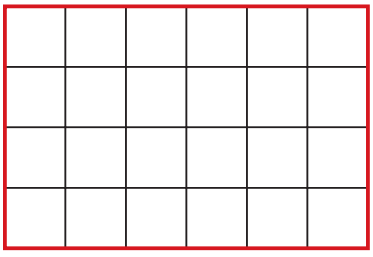
Rješenje:

Pravokutnik je podijeljen na 24 manja pravokutnika.

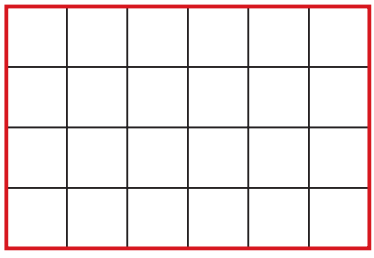
Kako bismo podijelili na 3 jednaka dijela, trebamo računati 24 : 3 = 8.

U svaki dio ide 8 manjih pravokutnika.

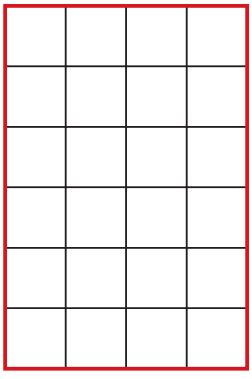
b) na 2 jednaka dijela



c) na 4 jednaka dijela



d) na 6 jednakih dijelova.



Zadatak 2.

a) Kako nazivamo brojeve kao što su: $\frac{3}{5}, \frac{1}{4}, \frac{1}{2}$, ...?

Odgovor: Takve brojeve nazivamo _____.

b) U razlomku $\frac{3}{7}$ broj 3 nazivamo _____,

broj 7 nazivamo _____, a crtu između brojeva 3 i 7

nazivamo _____ _____.

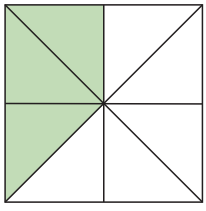
Zadatak 3.

Koliki je dio lika obojen?

a)

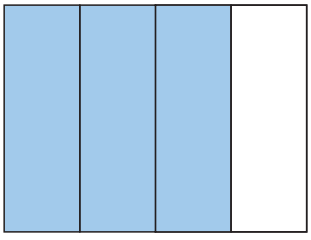
$\frac{2}{\square}$

b)



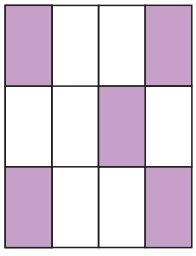
$\frac{\square}{\square}$

c)



$\frac{\square}{4}$

d)

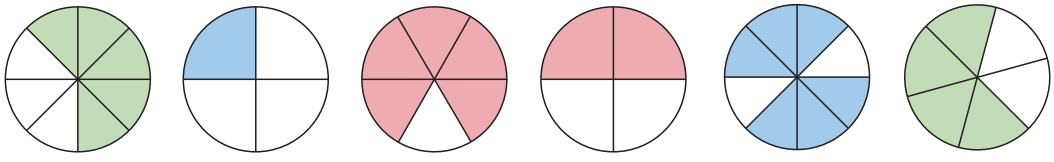


$\frac{\square}{\square}$

Zadatak 4.

Poveži razlomak koji pokazuje koliki dio *pizze* na slici **nije** pojeden.

$\frac{1}{4}$ $\frac{5}{6}$ $\frac{2}{4}$ $\frac{5}{8}$ $\frac{4}{6}$ $\frac{6}{8}$



Zadatak 5.

Zapiši kako čitamo ove razlomke:

$\frac{2}{3}$ _____

$\frac{1}{5}$ _____

$\frac{7}{8}$ _____

$\frac{6}{11}$ _____

$\frac{3}{4}$ _____

$\frac{1}{2}$ _____

Zadatak 6.

Zapiši u obliku razlomka broj napisan riječima.

a) četiri petine $\frac{\square}{\square}$

b) osam devetina $\frac{\square}{\square}$

c) sedam desetina $\frac{\square}{\square}$

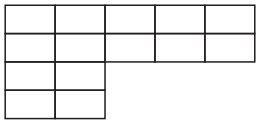
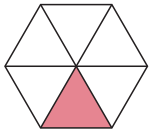
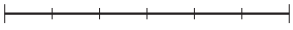
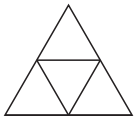
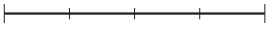
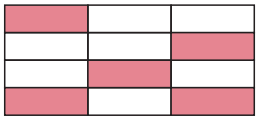
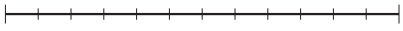
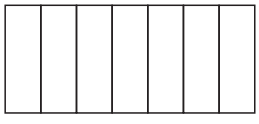
d) dvije trinaestine $\frac{\square}{\square}$

e) pet šestina $\frac{\square}{\square}$

f) jedna polovina $\frac{\square}{\square}$

Zadatak 7.

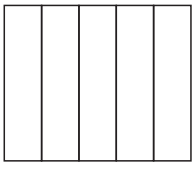
Ispuni tablicu.

Zapiši riječima	Zapiši razlomkom	Oboji lik	Označi dio crte
	$\frac{\square}{\square}$		
	$\frac{\square}{\square}$		
	$\frac{3}{4}$		
	$\frac{\square}{\square}$		
tri sedmine	$\frac{\square}{\square}$		

Zadatak 8.

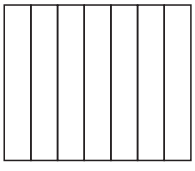
Koliko u cijelom pravokutniku možeš obojiti:

a) petina



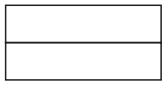
$\frac{\square}{\square}$

b) sedmina



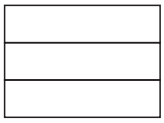
$\frac{\square}{\square}$

c) polovina



$\frac{\square}{\square}$

d) trećina?



$\frac{\square}{\square}$

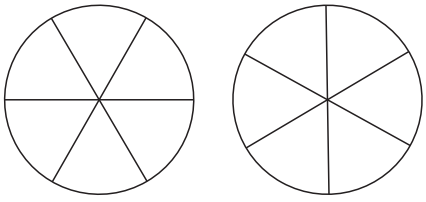
Zadatak 9.

Koliko je?

$\frac{5}{5} =$ $\frac{11}{11} =$ $\frac{13}{13} =$ $\frac{3}{3} =$ $\frac{7}{7} =$ $\frac{6}{6} =$

Zadatak 10.

a)



Koliko ima nacrtanih krugova?

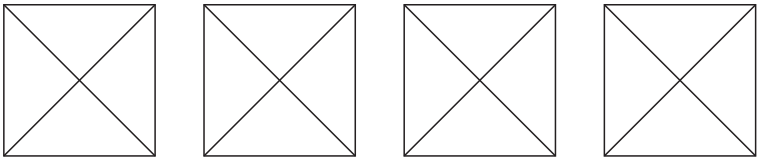
Odgovor: _____.

Koliko ukupno ima šestina u nacrtanim krugovima?

Odgovor: $\frac{\square}{\square}$

Broj nacrtanih krugova jednak je dobivenom razlomku.

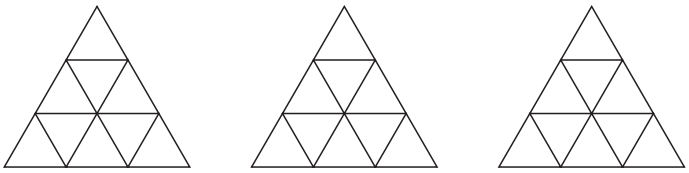
b)



Koliko ima nacrtanih kvadrata? = Koliko ima četvrtina u svim nacrtanim kvadratima?

Odgovor: _____ = $\frac{\square}{\square}$

c)



Koliko je trokuta sa stranicom duljine 15 mm? = Koliko ukupno ima dijelova u nacrtanim trokutima?

Odgovor: _____ = $\frac{\square}{\square}$

Zadatak 11.

Promotri razlomke $\frac{7}{12}$, $\frac{4}{5}$, $\frac{9}{13}$, $\frac{3}{7}$, $\frac{15}{16}$, $\frac{64}{7}$, $\frac{38}{1}$. U tablicu **redom** zapiši sve:

Nazivnike	
Brojnike	

5.2. RAZLOMCI

Zadatak 1.

Dopuni.

Svaki količnik možemo zapisati u obliku _____.

Zadatak 2.

Poveži razlomak s količnikom.

$\frac{5}{2}$	$\frac{8}{11}$	$\frac{3}{4}$	$\frac{6}{13}$	$\frac{15}{7}$
15 : 7	3 : 4	5 : 2	8 : 11	6 : 13

Zadatak 3.

Dopuni.

a) $8 : 5 = \frac{8}{\square}$

b) $\frac{17}{38} = 17 : \square$

c) $97 : 100 = \frac{\square}{100}$

d) $\frac{15}{23} = \square : 23$

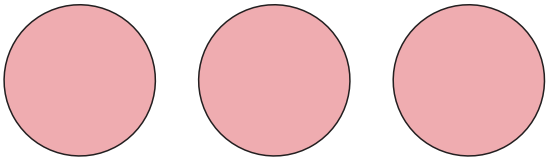
Zadatak 4.

Zapiši broj 3 s kao razlomak s nazivnikom:

a) jedan

Rješenje:

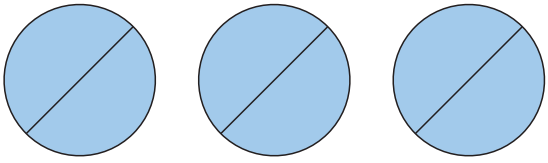
1. Nacrtajmo i obojimo 3 kruga.
2. Zbog nazivnika 1 svaki krug trebamo podijeliti na 1 dio.
3. U brojnik zapisujemo koliko dijelova ima.

$3 =$  $\frac{\boxed{3}}{1} \longrightarrow 3 = \frac{\boxed{3}}{1}$

b) dva

Rješenje:

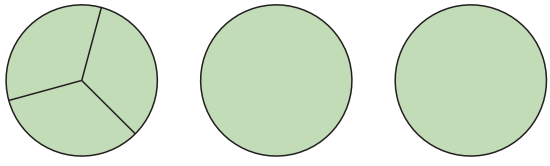
1. Nacrtajmo i obojimo 3 kruga.
2. Zbog nazivnika 2 svaki krug trebamo podijeliti na 2 jednaka dijela.
3. Prebroji koliko ukupno ima polovina i taj broj zapiši u brojnik.

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

c) tri

Rješenje:

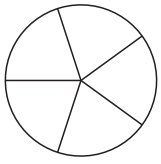
1. Nacrtajmo i obojimo 3 kruga.
2. Zbog nazivnika 3 trebaš svaki krug podijeliti na 3 jednaka dijela.
3. Prebroji koliko ukupno ima trećina i taj broj zapiši u brojnik.

$3 =$  $\frac{\boxed{}}{3} \longrightarrow 3 = \frac{\boxed{}}{3}$

d) četiri

$3 =$ ○ ○ ○ $\frac{\square}{4}$ → $3 = \frac{\square}{\square}$

e) pet

$3 =$  ○ ○ $\frac{\square}{5}$ → $3 = \frac{\square}{\square}$

f) šest

$3 =$ ○ ○ ○ $\frac{\square}{6}$ → $3 =$

g) sedam.

$3 =$ ○ ○ ○ $\frac{\square}{7}$ → $3 =$

Zadatak 5.

Napiši broj 11 kao razlomak s nazivnikom:

a) 2 $\quad 11 = \frac{\square}{2}$ → $\square : 2 = 11, \quad \square = 11 \cdot 2 = 22$

b) 3 $\quad 11 = \frac{\square}{3}$