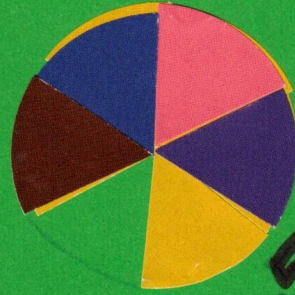


Razlomci



$1/2$

$5/6$

$1/2 = 2/4 = 4/8$



$2/3$

$4/7$ ŠTO SU RAZLOMCI?



$+ \square = 1/2$

$$\frac{3}{12}$$

$$\frac{3}{9}$$

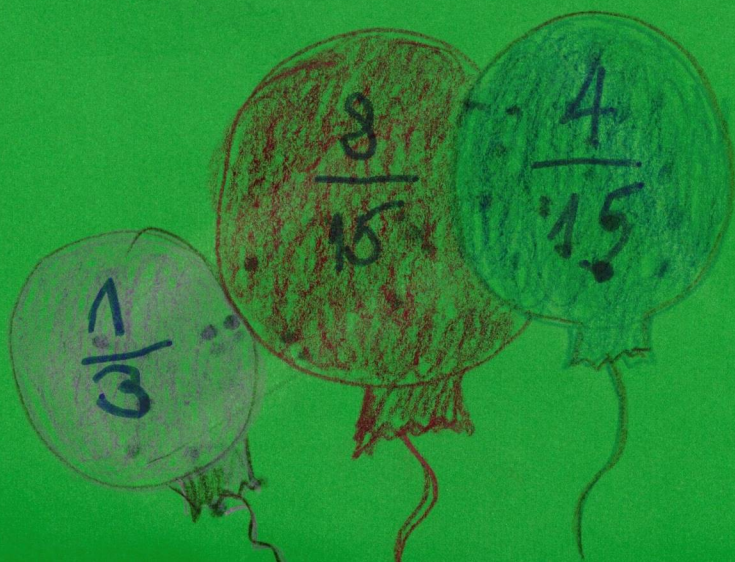
$$\frac{1}{2} > \frac{1}{8}$$

RAZLOMAK ZNAČI SAMO JEDNAKI DIO NEČEGA ILI NEŠTO
ŠTO JE PODIJELENO *



RAZLOMKE MOŽEMO:

- ZBRAJATI I ODUZIMATI
- MNOŽITI I DIJELITI
- USPOREĐIVATI
- PRIKAZIVATI NA BROJEVNOM PRAVCU



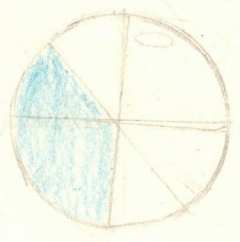
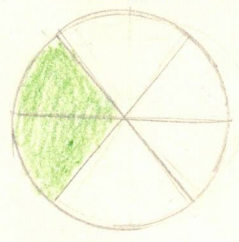
PROŠIRIVANJE RAZLOMAKA

• U GNJEZDU SE NALAZE 4 JAJA. POLOVINA IH JE ŽUTE BOJE, KOLIKO JE TO ČETVRTINA?



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

• A SAD TI 😊 PROBAJ:



$$\frac{1}{3} = \frac{2}{6} \quad \frac{3}{4} = \frac{6}{8}$$

SKRACIVANJE RAZLOMAKA

• MAJA JE POJELA $\frac{1}{4}$ DINJE. KASNIJE JE POJELA JOJ $\frac{1}{4}$ DINJE. IVA JE POJELA $\frac{1}{2}$ DINJE. TKOJE OD NJIH DINJE POJEO VIŠE DINJE?

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

• A SAD TI 😊 PROBAJ:

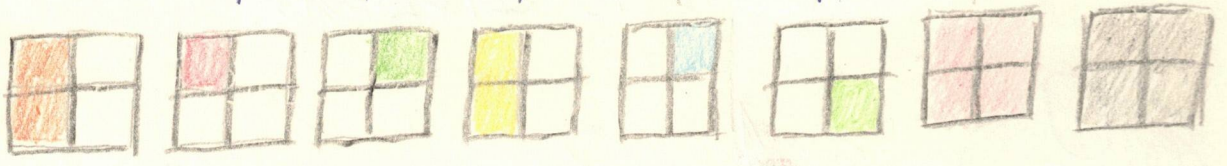
$$\frac{3}{6} = \frac{1}{2}$$



ZBRAJANJE RAZLOMAKA

• MARKO JE DOBIO $\frac{1}{2}$ ČOKOLADE, IVAN JE DOBIO $\frac{1}{4}$ ČOKOLADE, A KARLO JE DOBIO $\frac{1}{4}$ ČOKOLADE. KOLIKO ČOKOLADE IMAJU ZAJEDNO?

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



$$\frac{2}{3} + \frac{1}{4} = \frac{8}{12} + \frac{3}{12} = \frac{11}{12}$$

• A SAD TI 😊 PROBAJ: $\frac{1}{3} + \frac{1}{6} = ?$

$$\frac{2}{4} + \frac{1}{5} = ?$$

ODUZIMANJE RAZLOMAKA

• IRENA JE DOBILA $\frac{1}{2}$ TORTE, NO EVA JOJ JE POGELA $\frac{1}{4}$ TORTE. KOLIKO JE TORTE OSTALO IRENI?

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



• A SAD TI 😊 PROBAJ:

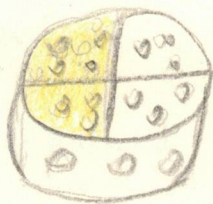
$$\frac{7}{3} - \frac{3}{4} = ?$$

$$\frac{1}{3} - \frac{1}{6} = ?$$

USPOREDIVANJE RAZLOMAKA

- BIJELI MIŠ JE POJEO $\frac{1}{2}$ SIRA A CRVI MIŠ JE POJEO $\frac{1}{4}$ SIRA. KOJI MIŠ JE POJEO VIŠE SIRA?

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



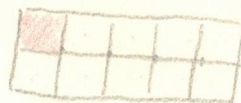
• BIJELI MIŠ

$$\frac{2}{3} = \frac{4}{6} < \frac{3}{2} = \frac{9}{6}$$

- A SAD TI 😊 PROBAJ!

$$\frac{1}{5} \quad \text{?} \quad \frac{1}{10}$$

$$\frac{3}{4} = \frac{9}{12} \quad \text{?} \quad \frac{4}{3} = \frac{16}{12}$$



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



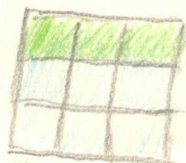
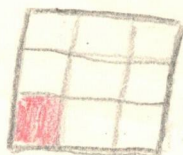
- ANNA JE POJELA $\frac{1}{6}$ SLADO LEDA, A MARIJA JE POJELA $\frac{1}{3}$ SLADO LEDA.

TKO JE POJEO MANJE SLADO LEDA?

- A SAD TI 😊 PROBAJ!

$$\frac{1}{9} \quad \text{?} \quad \frac{1}{3}$$

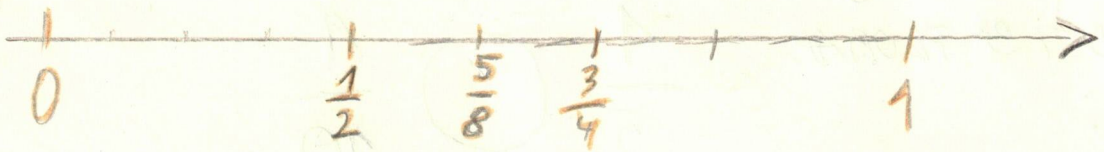
$$\frac{3}{2} \quad \text{?} \quad \frac{12}{16}$$



SMJESTAJE RAZLOMAKA

NA

BROJEVNI PRAVAK



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



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



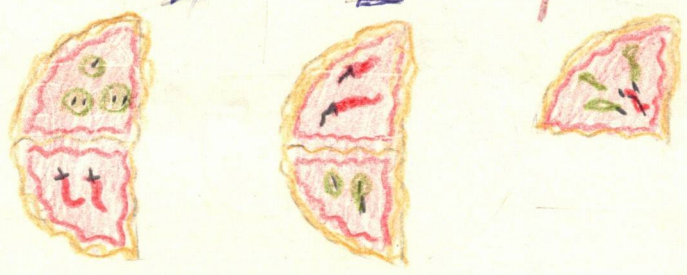
$$\frac{5}{8}$$

DIJELJENJE RAZLOMKA

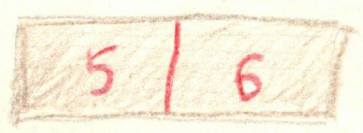
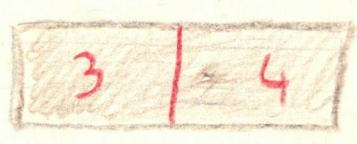
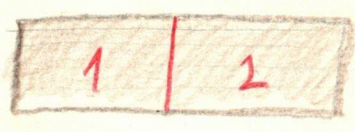
• SANJA, NERAI I TEO SU JELE PIZZU.

SANJA JE POJELA POLA PIZZE, NERAI I TEO SU MORALI PODJELITI. KOLIKO JE SVATKO OD NJIH POJEO PIZZU?

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



• AKO 3 KOMADA DASAKA PREPOLOVIMO NA POLA, KOLIKO ĆEMO KOMADA DOBITI?



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

$$4 : \frac{1}{6} = \frac{4}{6} \cdot \frac{2}{2} = \frac{2}{3} \cdot \frac{1}{5} = \frac{2}{15}$$

• A SADI 😊 PROBAJ!

AKO POLOVINU KRUGA PODJELIMO NA 3 JEDAKA DUELA I POBJIMO 1 DIO, KOLIKI DIO KRUGA SMO DOBILI?



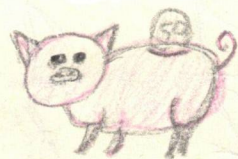
$$\frac{1}{2} : 3 = ?$$

MNOŽENJE RAZLOMAKA

- ANA JE SVAICI DAN U KASICU STAVYAJA $\frac{1}{2}$ KNUNIE KO LI KO JE ANA USTEDJELA U MJESECU TRAVNJA

(MJESECI TRAVANJ = 30 DANA)

$$\frac{1}{2} \cdot 30 = 15 \text{ KN}$$



• ANA JE UŠTE

$$\frac{5}{9} \cdot \frac{8}{2} = \frac{5 \cdot 8}{9 \cdot 2} = \frac{40}{18} = \frac{20}{9} = 2 \frac{2}{9}$$

$$\frac{3}{5} \cdot \frac{1}{10} = \frac{3 \cdot 1}{5 \cdot 10} = \frac{3}{50}$$

- A SAD TI PBRORAJ:

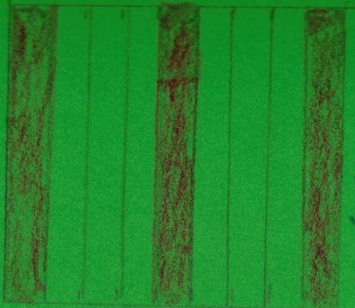
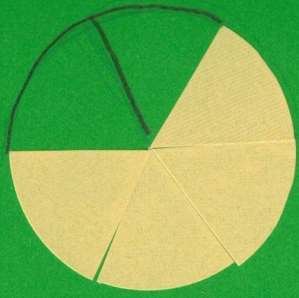
$$\frac{4}{6} \cdot \frac{10}{2} = ? \quad \frac{1}{4} \cdot \frac{2}{6} = ?$$

- U 1 ULICI IMA 8 KUĆA, NA $\frac{1}{4}$ KUĆA SU RASPOREĐENI LAMPIONI, NA KOLIKO SE KUĆA NAHAZE LAMPIONI

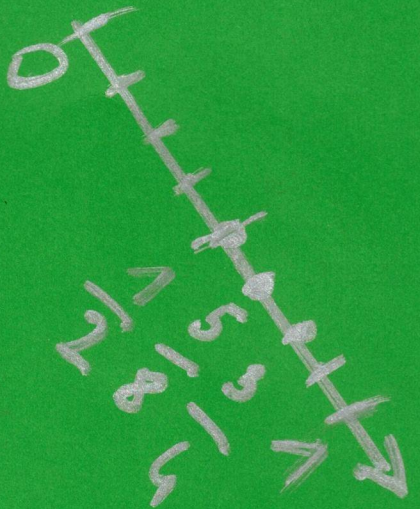


$$\frac{8}{4} \cdot \frac{1}{1} = 2$$

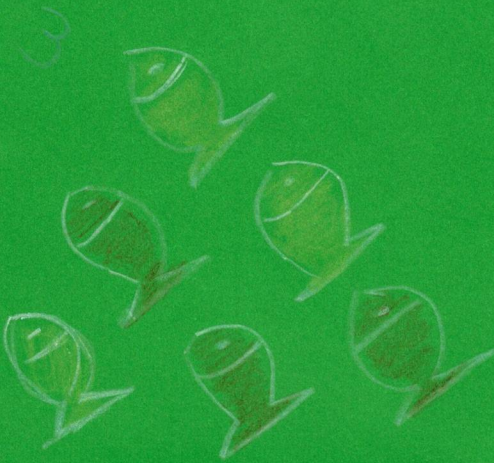
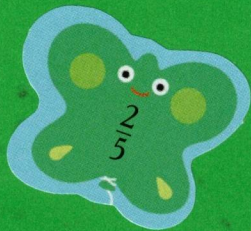
- LAMPIONI SE NAHAZE NA



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



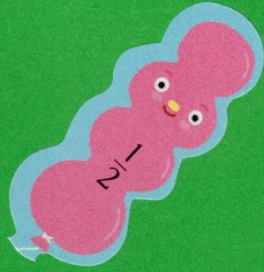
$$2\frac{7}{8} - 2\frac{6}{8}$$





$$3 \frac{2}{7} + \frac{5}{7} = 4 \frac{7}{7}$$

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



$$4 \frac{3}{3} + 2 \frac{2}{2} = 6 \frac{5}{2}$$

$$7 \frac{1}{6} = 2 \frac{2}{3}$$

