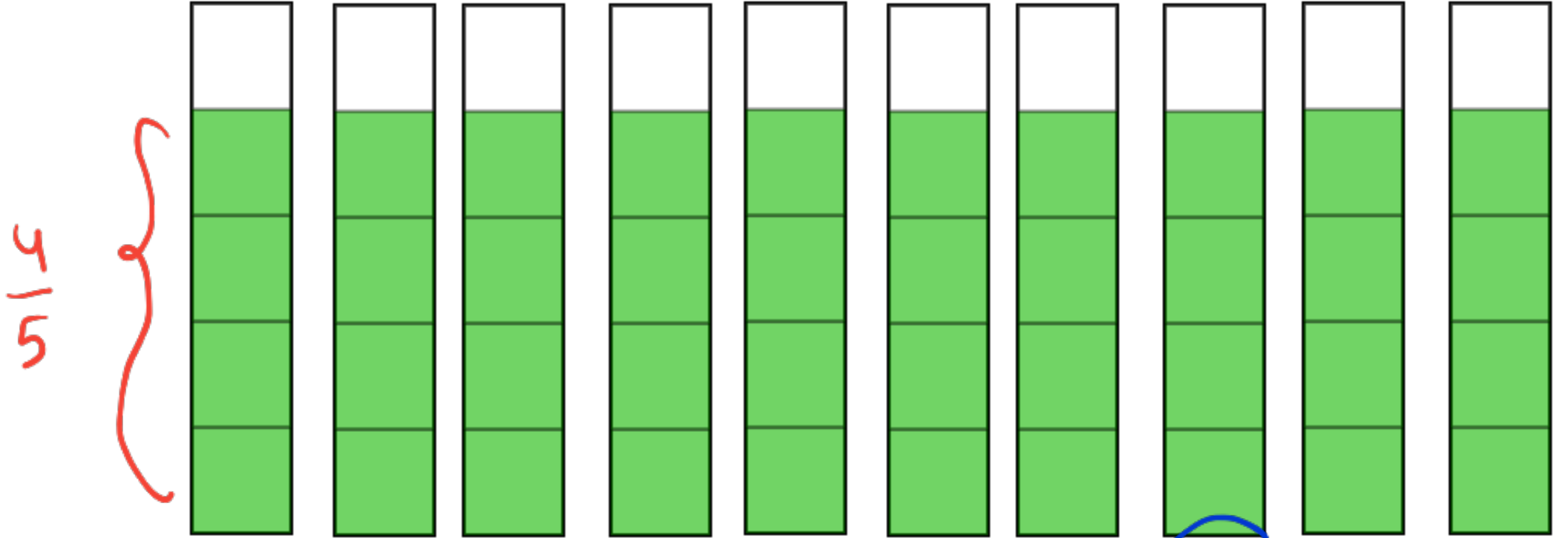


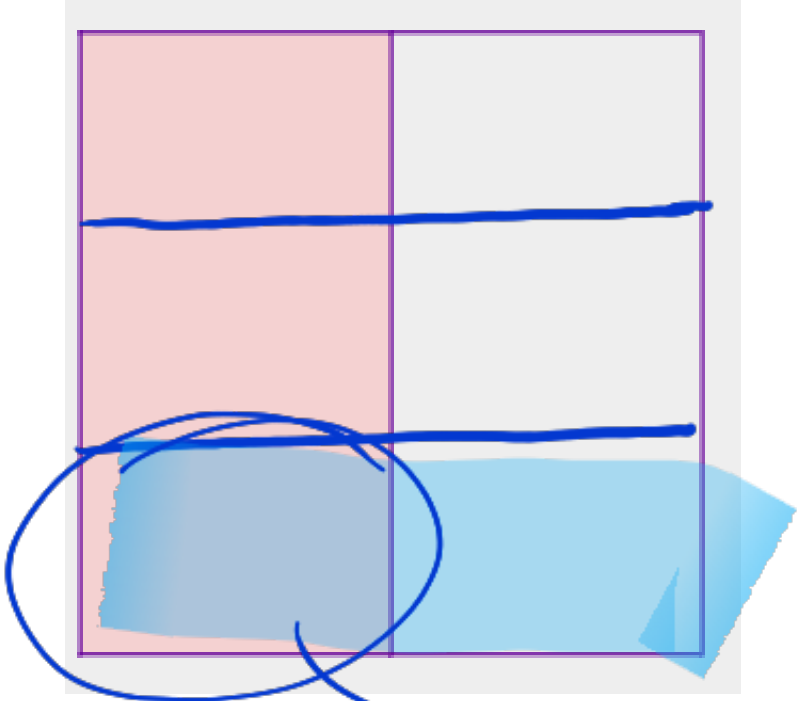
KESİRLERLE ÇARPMA İŞLEMİ

Litrelik zeytinyağı şişelerinin $\frac{4}{5}$ 'i doludur. 10 tane şişenin içinde kaç litre zeytinyağı bulunur ?



40 tane $\frac{1}{5} = \frac{40}{5} = 8$ olur. $\rightarrow \frac{10}{1} \times \frac{4}{5} = \frac{40}{5} = 8$

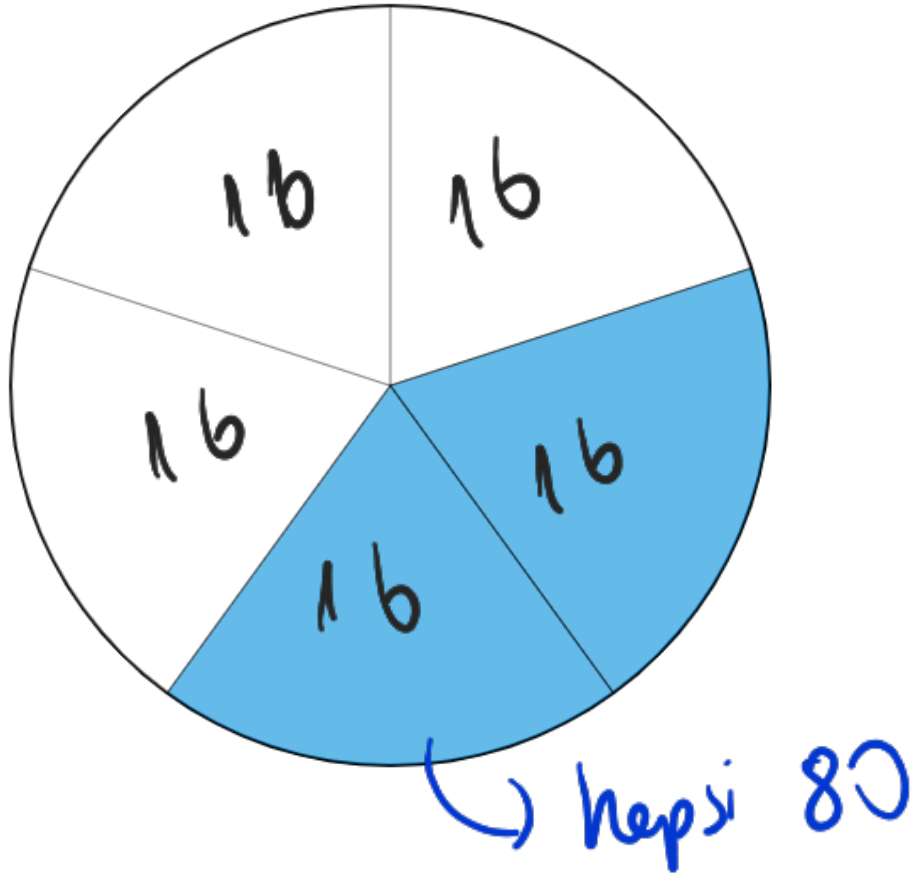
Bir şişenin yarısı kadar süt vardır. Geriye kalan süütün ise $\frac{1}{3}$ ' ü kullanılıyor. Kullanılan süütün miktarını nasıl ifade edebiliriz?



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

$\frac{1}{6}$ i olur

Tamamı 80 koyudan oluşan bir sürünün $\frac{2}{5}$ ' i siyah başlı koyundur. Kaç adet siyah başlı koyun vardır?



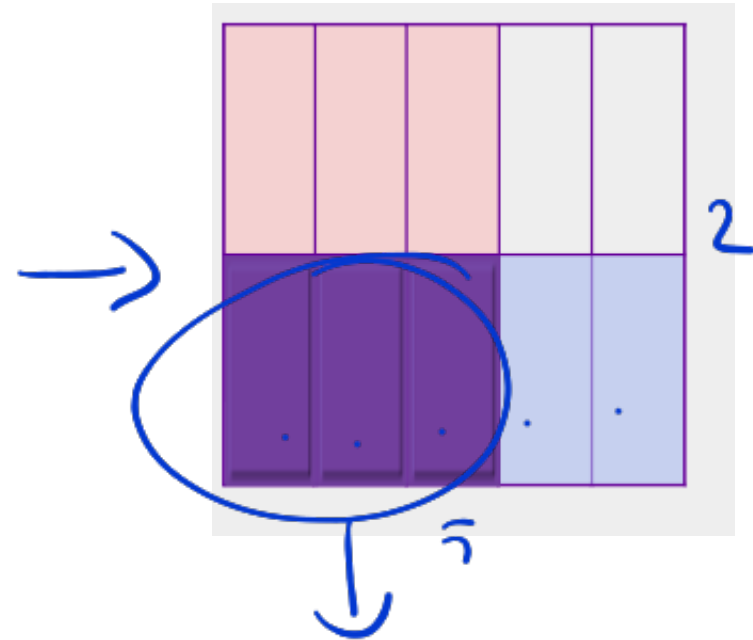
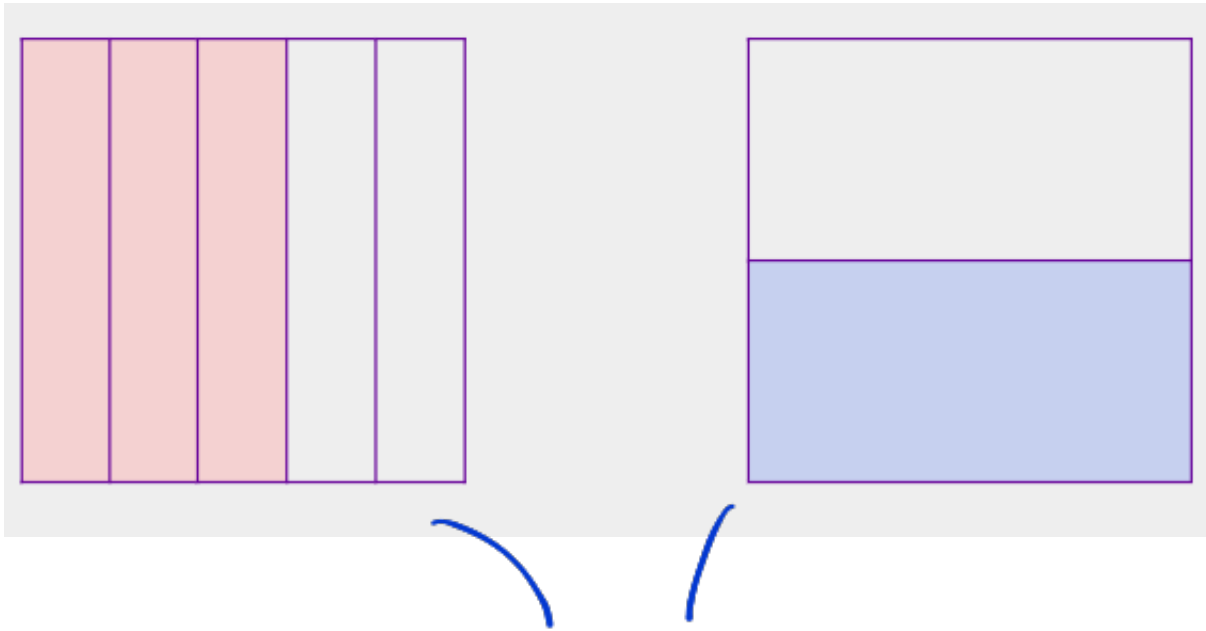
$$80 \div 5 = 16 \quad \text{yada}$$

$$16 \times 2 = 32$$

$$80 \times \frac{2}{5} = \frac{160}{5} = 32$$

paydasda gizli 1 var

$$\frac{3}{5} \times \frac{1}{2} = ? \rightarrow \frac{3}{5} \times \frac{1}{2} = \frac{3}{10} \checkmark$$



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

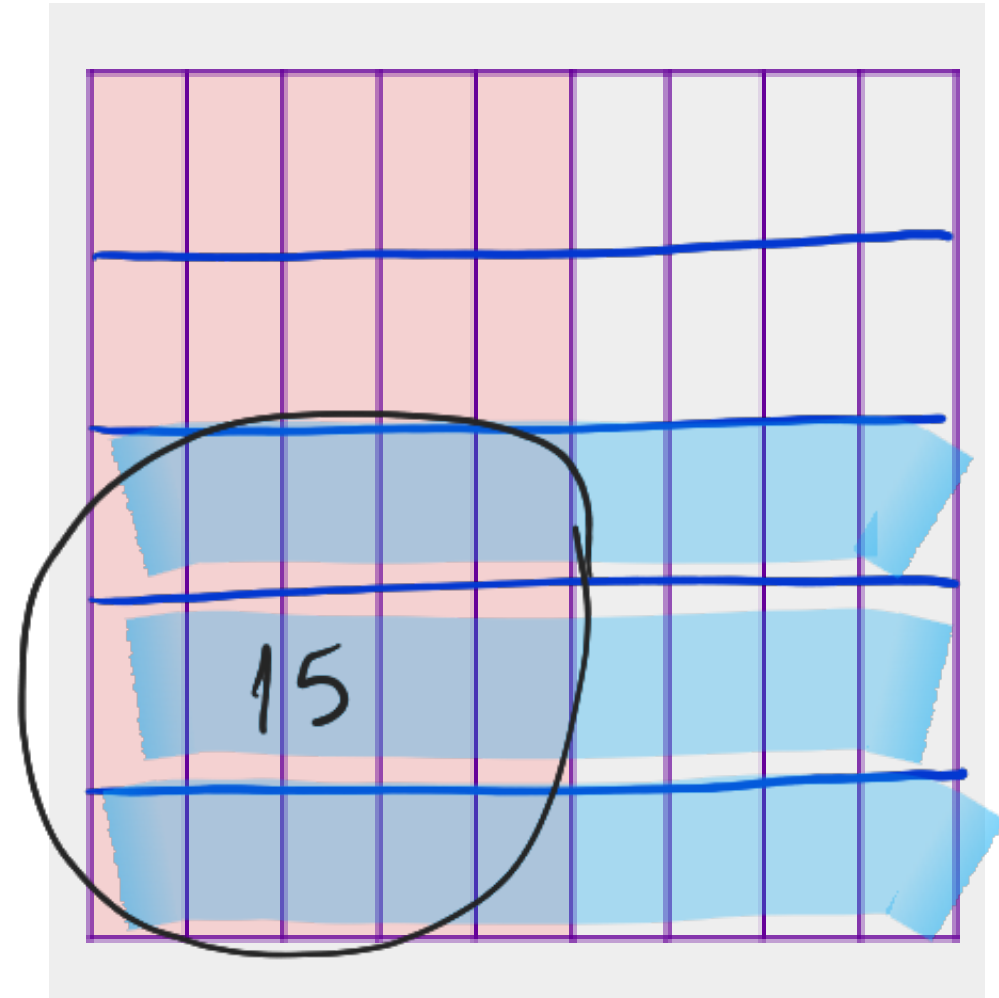
$$12 \times \frac{3}{4} = ?$$



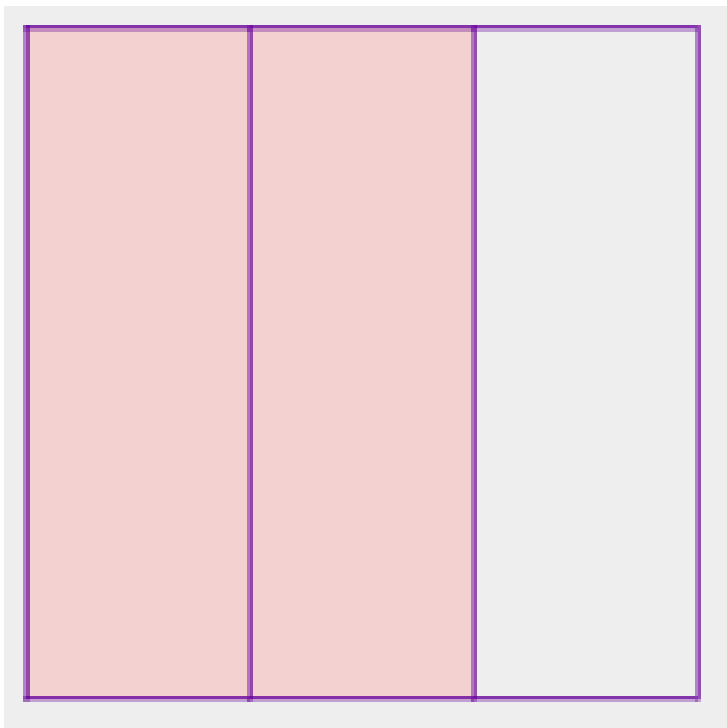
$$12 \div 4 = 3 \quad 3 \times 3 = 9$$

$$\frac{12}{1} \times \frac{3}{4} = \frac{36}{4} = 9 \checkmark$$

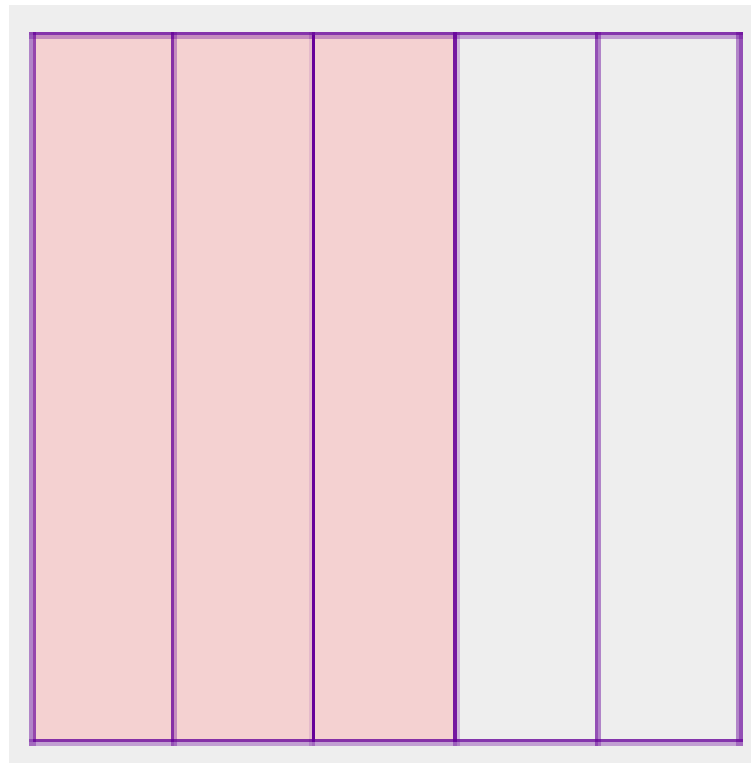
$$\frac{5}{9} \times \frac{3}{5} = ? \quad \frac{5}{9} \times \frac{3}{5} = \frac{15}{45} = \frac{1}{3} //$$



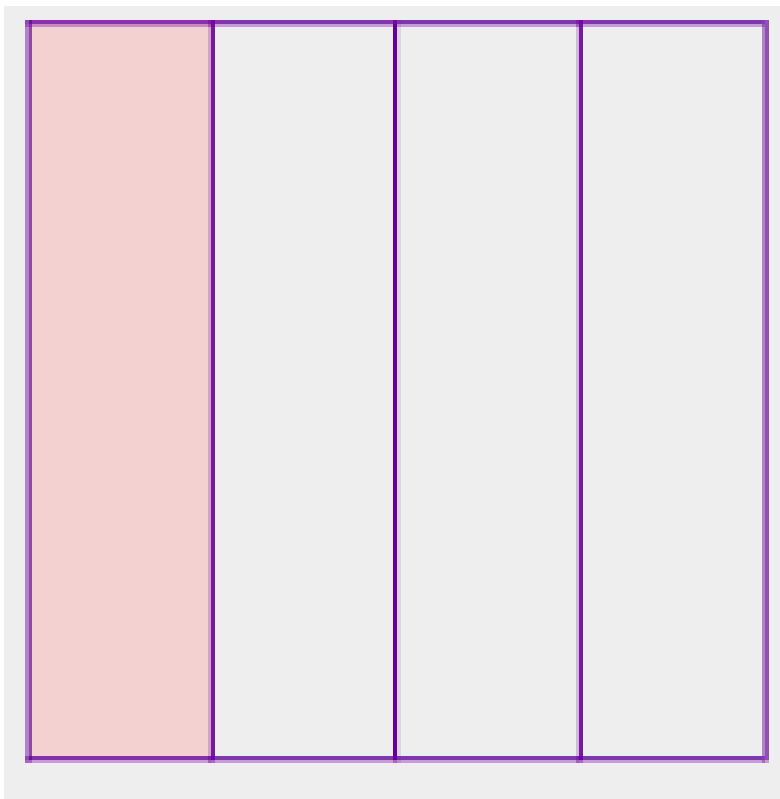
$$\frac{2}{3} \times \frac{3}{4} = ?$$



$$\frac{3}{5} \times \frac{1}{4} = ?$$



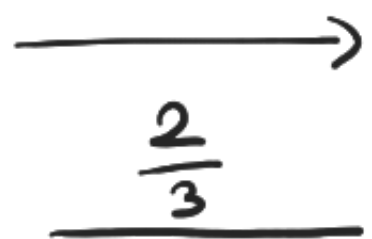
$$\frac{1}{3} \times \frac{1}{4} = ?$$



$$30 \times \frac{4}{6} = ?$$

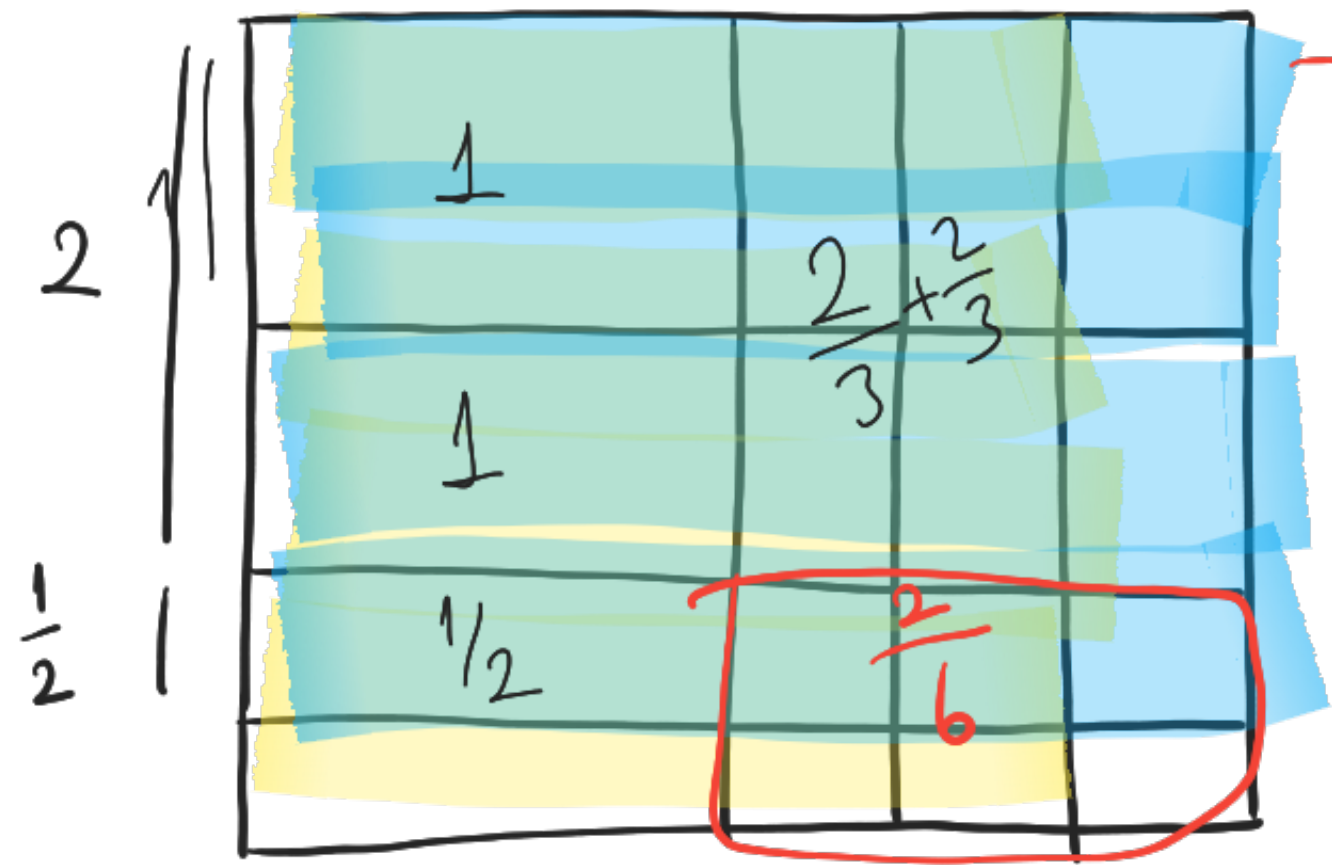


$$1\frac{2}{3} \times 2\frac{1}{2} = ?$$



$$\frac{5}{3} \times \frac{5}{2} = \frac{25}{6} \checkmark \rightarrow \text{bilezik kesre dönüştürceğiz}$$

→ II. yol → Alanla yapalım!



$$\rightarrow 2 + \frac{4}{3} + \frac{1}{2} + \frac{2}{6}$$

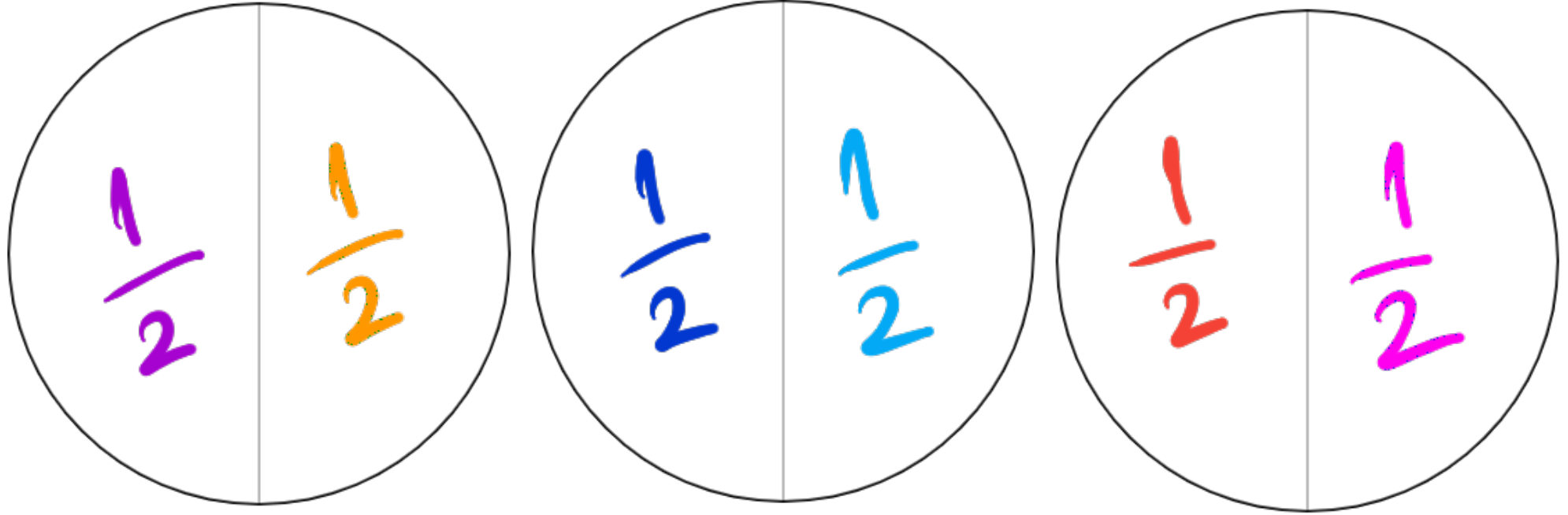
(2) (3)

$$2 + \frac{8+3+2}{6} = 2\frac{13}{6}$$

$$= \frac{25}{6} //$$

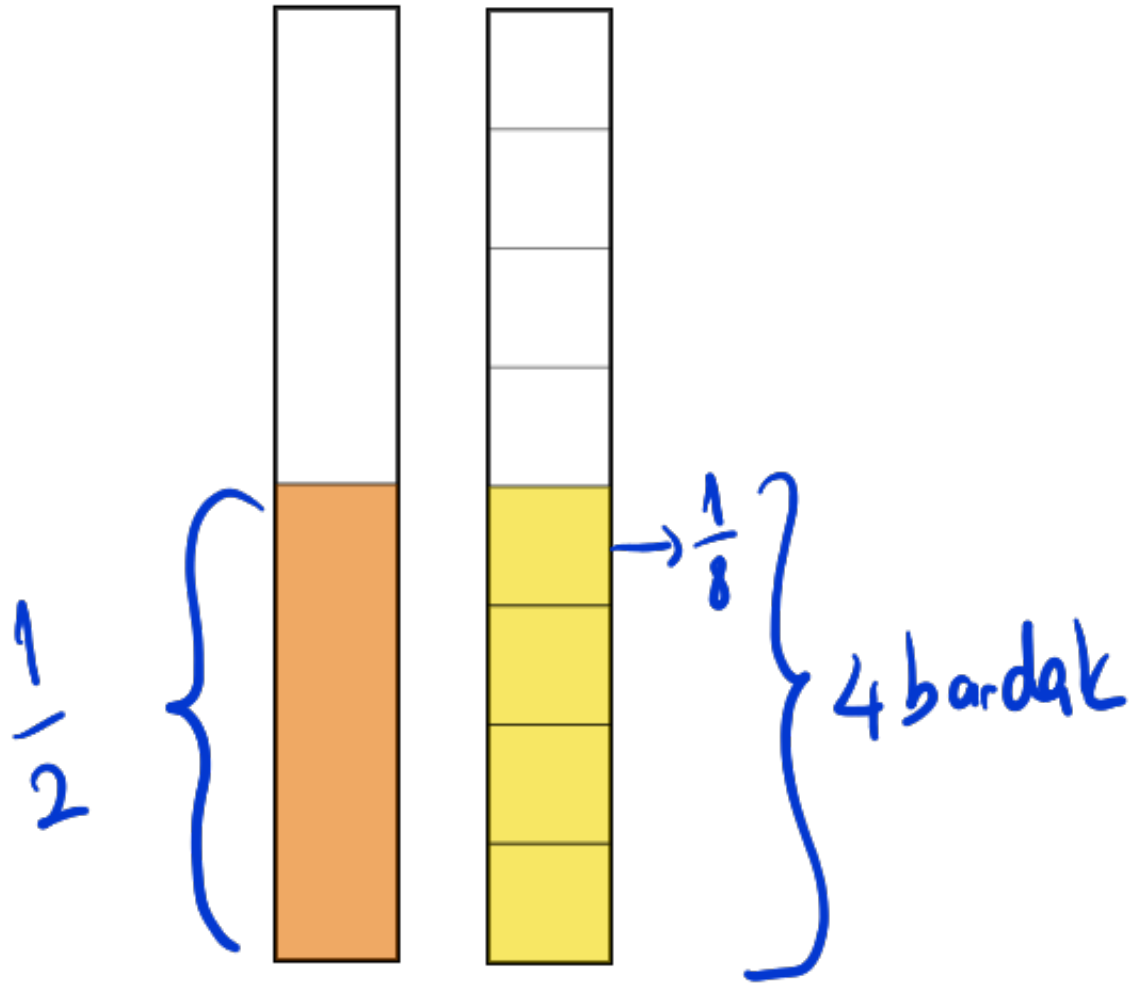
KESİRLERLE BÖLME İŞLEMİ

3 kurabiyemiz var. Her bir arkadaşımıza yarım kurabiye verebiliriz. Kaç kişi bu kurabiyelerden yiyebilir?



$$3 \div \frac{1}{2} = 6 \text{ kişi yiyebilir.}$$

Yarım litre meyve suyu $\frac{1}{8}$ litrelik bardaklara konulacaktır. Kaç bardak meyve suyu vardır?



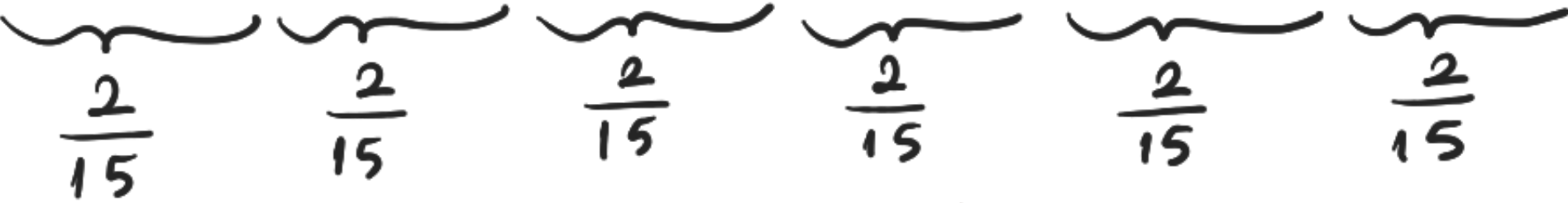
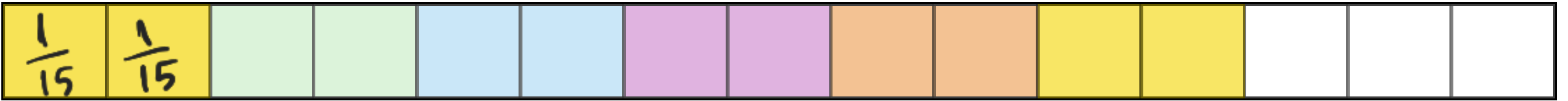
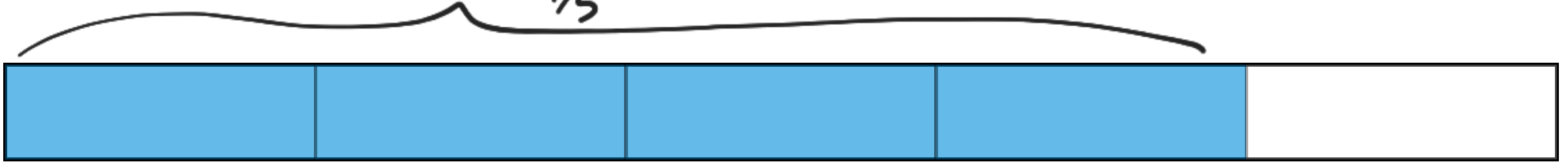
$$\frac{1}{2} \div \left(\frac{1}{8}\right) = 4 \rightarrow \text{peki neyi}$$

↓ ters çevir

$$\frac{1}{2} \times \frac{8}{1} = \frac{8}{2} = 4 //$$

çarp

$\frac{4}{5}$ metrelik bir kumaştan bir tanesi için $\frac{2}{15}$ metre kumaş gereken keselerden kaç tane yapılabilir?



$$\frac{4}{5} \div \frac{2}{15} = \frac{4}{5} \times \frac{15}{2} = \frac{60}{10} = 6 \text{ kесе yapılabilir.}$$

1)

$$\frac{2}{3} \div \frac{3}{4} = ?$$

↓

$$\frac{2}{3} \times \frac{4}{3} = \frac{8}{9} //$$

2)

$$\frac{5}{6} \div \frac{1}{12} = ?$$

3) $6 \div \frac{3}{4} = ?$



$\frac{6}{1} \div \frac{3}{4} = \frac{6}{1} \times \frac{4}{3} = \frac{24}{3} = 8$

paydada 1 var
ters çevir

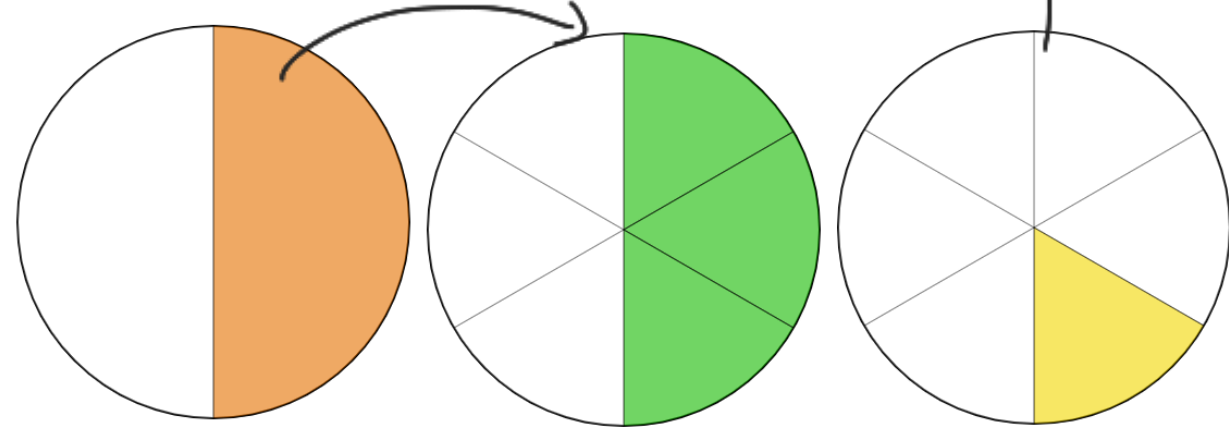
4) $15 \div \frac{5}{8} = ?$

5)

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

her bir parçayı 3'e böl

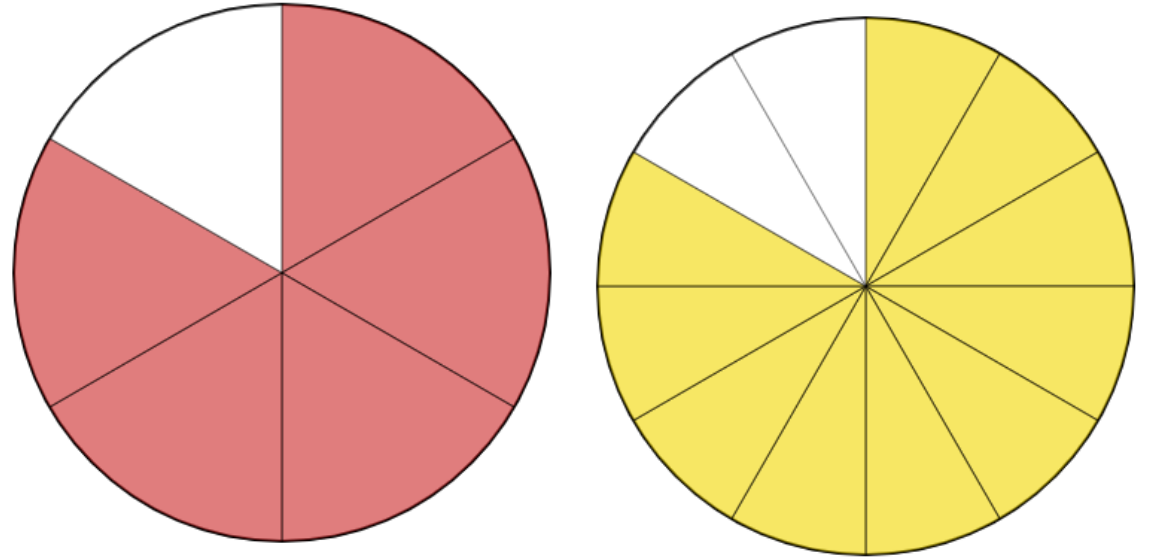
1'ini al //



$$\frac{1}{2} \div \left(\frac{3}{1}\right) = \frac{1}{2} \times \frac{1}{3} = \frac{1}{6} //$$

6)

$$\frac{5}{6} \div \frac{1}{12} = ?$$



$$7) \quad \frac{5}{12} \div \frac{25}{30} = ?$$

1. Yol $\Rightarrow \frac{5}{12} \times \frac{30}{25} = \frac{150}{300} = \frac{1}{2}$

Taktik!

2. Yol $\Rightarrow \frac{5}{12} \times \frac{30}{25}$

Gapraza bakıyoruz? Jadenin varmı?

$\frac{5}{12} \rightarrow 5'e$ böl
 $\frac{30}{25} \rightarrow 5'e$ böl
 $\frac{12}{25} \rightarrow 5'e$ böl
 $\frac{30}{5} \rightarrow 6'ya$ bölünür
 $\frac{12}{6} = 2$
 $\frac{30}{5} = 6$

$$\frac{1}{2} \times \frac{6}{6} = \frac{1}{2} //$$

$\rightarrow 5'e$ bölelim

$$8) \quad \frac{4}{5} \div \frac{3}{15} = ?$$

$$2\frac{2}{3} \div \frac{4}{9} = ?$$

$$\frac{8}{3} \div \left(\frac{4}{9}\right) = \frac{\cancel{8}^2}{\cancel{3}_1} \times \frac{\cancel{9}^3}{\cancel{4}_1} = \frac{6}{1} = 6$$

$$3\frac{1}{5} \div 2\frac{2}{3} = ?$$

$\left(1 - \frac{1}{7}\right) \cdot \left(1 - \frac{1}{6}\right) \cdot \left(1 - \frac{1}{5}\right)$ işleminin sonucu kaçtır?

↓
ipucu ⇒ $1 - \frac{1}{7} = \frac{7-1}{7} = \frac{6}{7}$ ↘
sıra sizde!)

15 tane $\frac{4}{5}$ 'in toplamı kaçtır?

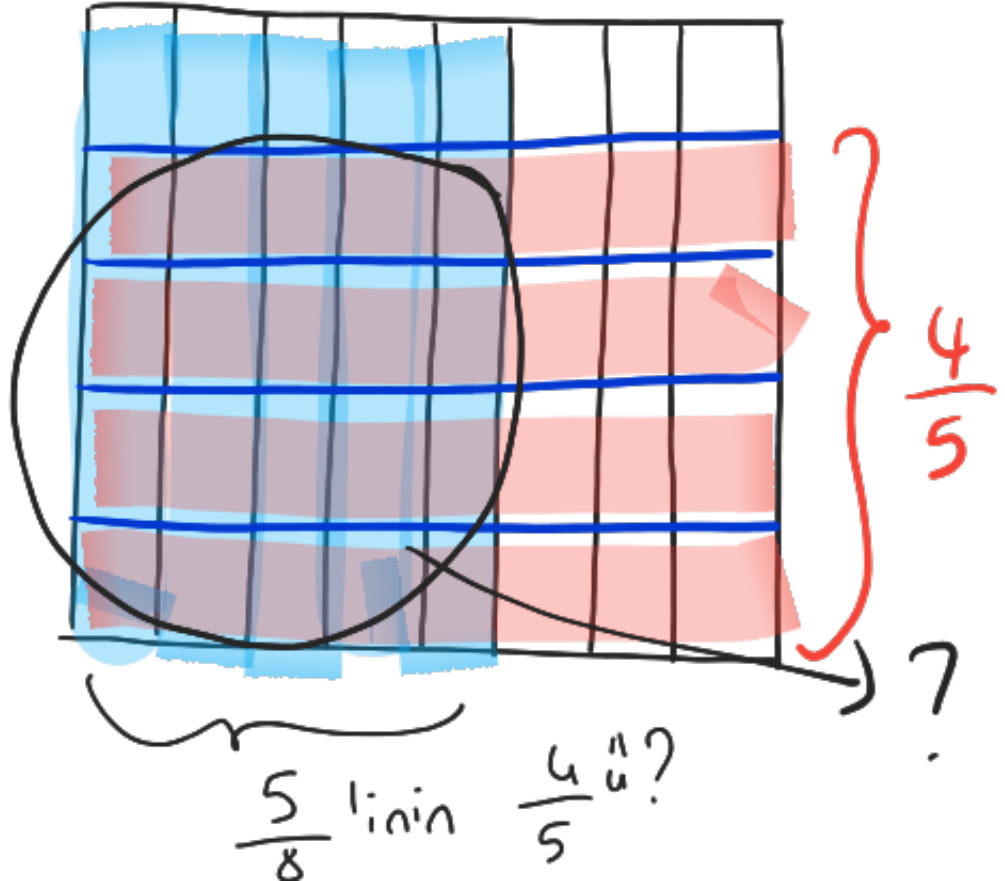
$\frac{3}{5} : \frac{4}{5}$ işleminin sonucu kaçtır?

Bir odaya parke döşemek için 1 m^2 'si $14\frac{1}{4}$ lira olan parkelerden 12 m^2 alınıyor. Buna göre parkelere ne kadar para ödenmiştir?

Hadi Madelle yapalım!

Metroya binen yolcuların $\frac{5}{8}$ 'i öğrencidir.

Öğrencilerin de $\frac{4}{5}$ 'ü erkektir. Buna göre metrodaki yolcuların kaçta kaç erkek öğrencidir?



Bir bardak su $\frac{1}{5}$ litre olduğuna göre 3 litre sudan kaç bardak su çıkar?