

BÖLME İŞLEMİ

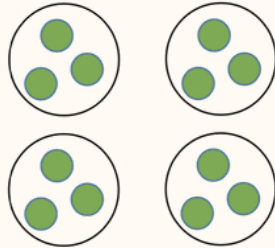
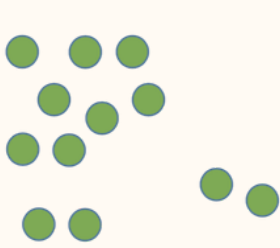
- Bölme işlemi, bir sayıyı eşit parçalara ayırma ya da belirli sayıda gruplara ayırma işlemidir.
- Bölme işareti: $\div$

Örnek: $12 \div 3 = 4$

Bu işlem, 12'nin içinde kaç tane 3 olduğunu gösterir.

1. Gruplama Yöntemi

Bu yöntemde sayı, belirli büyüklükte gruplara ayrılır.



12 nesneyi 3'erli gruplara ayıralım.

$$3 + 3 + 3 + 3 = 12$$

Toplam 4 grup oluşur.

Bu yüzden:

$$12 \div 3 = 4$$

✦ Açıklama: 12'nin içinde kaç tane 3 var? diye düşünürüz.

Cevap: 4 tane 3 vardır.

2. Geriye Doğru Ritmik Sayma Yöntemi

Bu yöntemde büyük sayıdan başlayarak bölen kadar geriye sayarız.

Amaç: Kaç adımda sıfıra ulaştığımızı bulmak.

$$15 \div 3 = ?$$

15'ten başlayalım. 3'er 3'er geriye sayalım:

$$15 - 3 = 12 - 3 = 9 - 3 = 6 - 3 = 3 - 3 = 0$$

Toplam 5 adım attık. Bu yüzden:

$$15 \div 3 = 5$$

✦ Açıklama: Her geriye sayma bir grubu gösterir.

Sıfıra kaç adımda ulaşırsak, bölüm o olur.

3. Ardışık Çıkarma Yöntemi

Bu yöntemde aynı sayı tekrar tekrar çıkarılır.

Amaç: Kaç kez çıkarma yaptığımızı bulmak.

$$20 \div 4 = ?$$

20'den 4 çıkaralım:

$$20 - 4 = 16$$

$$16 - 4 = 12$$

$$12 - 4 = 8$$

$$8 - 4 = 4$$

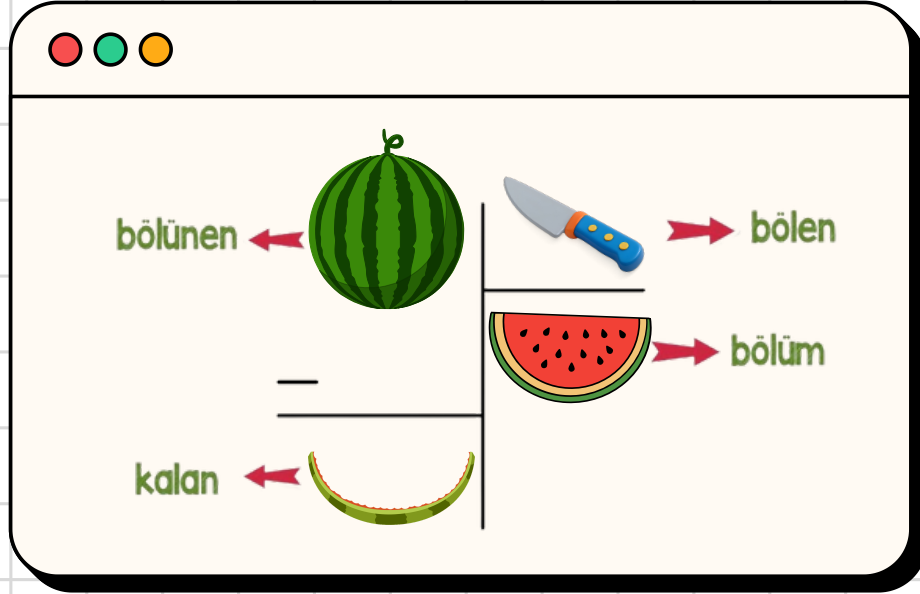
$$4 - 4 = 0$$

Toplam 5 kez çıkardık. Bu yüzden: $20 \div 4 = 5$

✦ Açıklama: Kaç kez çıkarma yaptıysak, bölüm o sayıdır.

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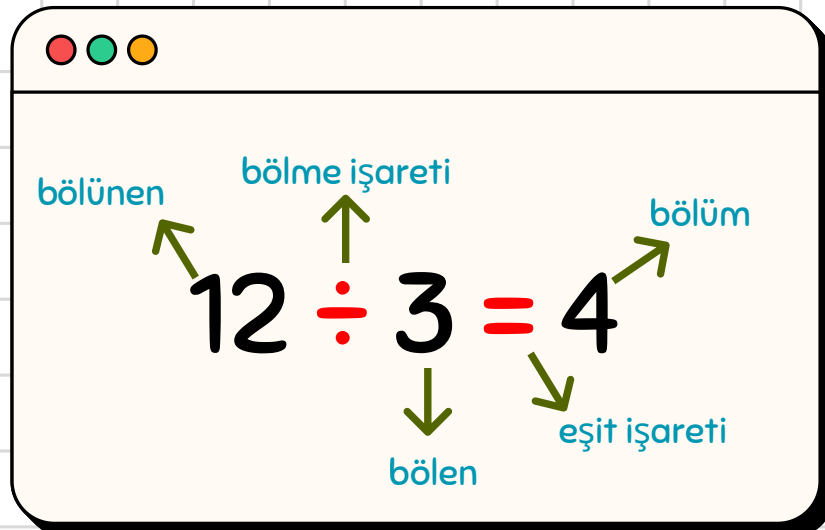


Örnek: $12 \div 3 = 4$

$$\begin{array}{r|l} 12 & 3 \\ -12 & 4 \\ \hline 00 & \end{array}$$

- Bu işlem şöyle okunur:
- 12 bölü 3 eşittir 4.
- 12'nin içinde 3 tane 4 vardır.

NOT: Bölme işlemi bölünen, bölen ve bölümü yan yana yazarak da yapabiliriz.





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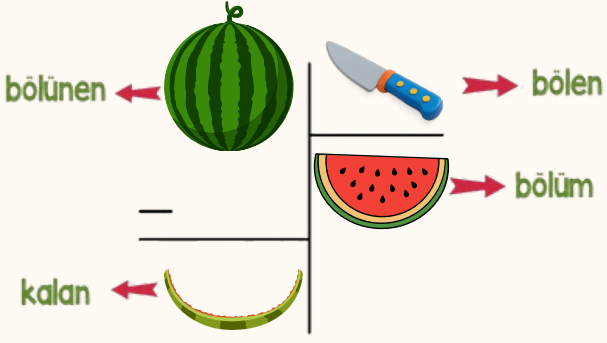


Diagram illustrating the division equation $12 \div 3 = 4$ with labels:

- 12 : bölünen (dividend)
- $\div$: bölme işareti (division symbol)
- 3 : bölen (divisor)
- $=$: eşit işareti (equality symbol)
- 4 : bölüm (quotient)



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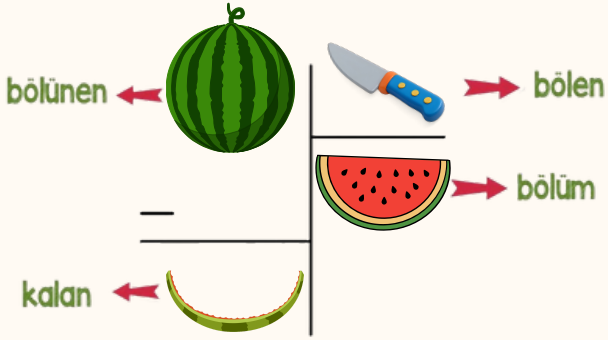


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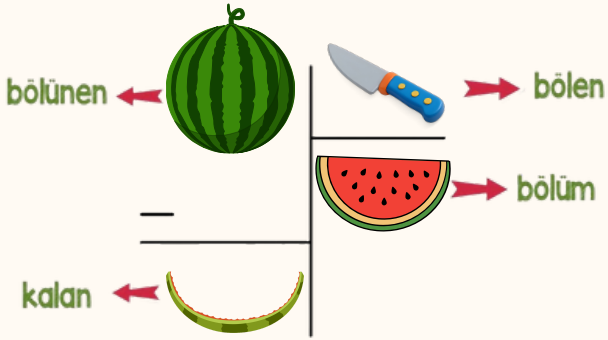


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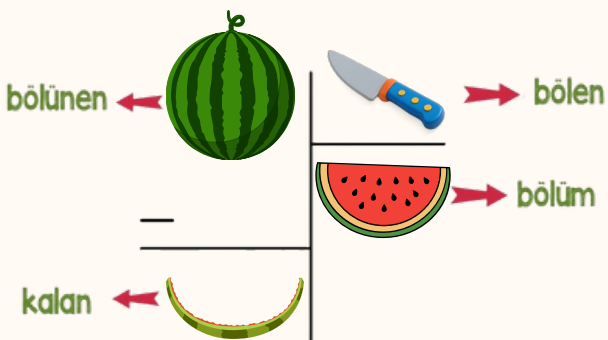


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Aşağıda verilen bölme işlemlerini yapalım.

$$\begin{array}{r} 8 \overline{) 2} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 6 \overline{) 2} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 10 \overline{) 2} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 4 \overline{) 2} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 12 \overline{) 3} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 18 \overline{) 3} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 15 \overline{) 3} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 9 \overline{) 3} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 16 \overline{) 4} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 8 \overline{) 4} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 20 \overline{) 4} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 12 \overline{) 4} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 12 \overline{) 2} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 24 \overline{) 3} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 36 \overline{) 4} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 50 \overline{) 5} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 10 \overline{) 5} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 35 \overline{) 5} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 20 \overline{) 5} \\ \underline{} \\ \end{array}$$

$$\begin{array}{r} 40 \overline{) 5} \\ \underline{} \\ \end{array}$$



Aşağıda verilen bölme işlemlerini yapalım.


$$\begin{array}{r} 10 \overline{) 5} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 20 \overline{) 4} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 12 \overline{) 5} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 15 \overline{) 5} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 15 \overline{) 3} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 8 \overline{) 2} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 16 \overline{) 4} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 18 \overline{) 3} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 25 \overline{) 5} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 16 \overline{) 4} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 20 \overline{) 2} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 9 \overline{) 3} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 10 \overline{) 2} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 30 \overline{) 5} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 14 \overline{) 2} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 16 \overline{) 2} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 18 \overline{) 2} \\ \underline{} \\ \end{array}$$

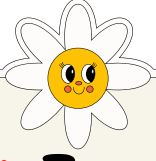

$$\begin{array}{r} 6 \overline{) 2} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 30 \overline{) 3} \\ \underline{} \\ \end{array}$$


$$\begin{array}{r} 20 \overline{) 2} \\ \underline{} \\ \end{array}$$



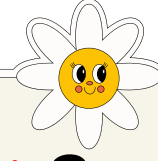
Aşağıda verilen bölme işlemlerini yapalım.



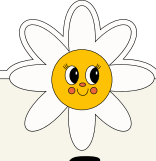
$$12 \div 3 = \dots\dots$$



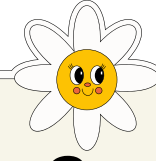
$$16 \div 4 = \dots\dots$$



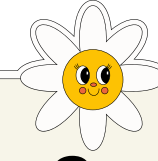
$$18 \div 2 = \dots\dots$$



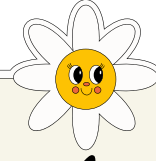
$$20 \div 5 = \dots\dots$$



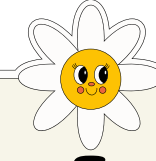
$$12 \div 2 = \dots\dots$$



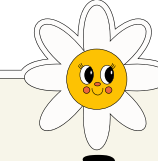
$$16 \div 2 = \dots\dots$$



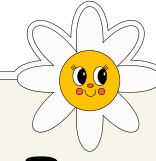
$$28 \div 4 = \dots\dots$$



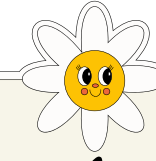
$$25 \div 5 = \dots\dots$$



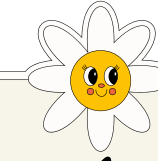
$$30 \div 3 = \dots\dots$$



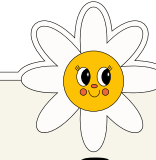
$$9 \div 3 = \dots\dots$$



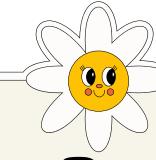
$$24 \div 4 = \dots\dots$$



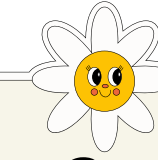
$$40 \div 4 = \dots\dots$$



$$40 \div 5 = \dots\dots$$



$$18 \div 3 = \dots\dots$$



$$14 \div 2 = \dots\dots$$