

İlkokul



PAYDALARI EŞİT KESİRLERLE
TOPLAMA İŞLEMİ



PAYDALARI EŞİT KESİRLERLE TOPLAMA İŞLEMİ

Paydaları eşit olan kesirlerle toplama işlemi yapılırken;

- Paylar toplanır pay kısmına yazılır.
- Paydalar ortak payda olarak yazılır.



Tam sayılı kesirlerde toplama işlemi yapılırken tam sayılar da toplanır.

$$\begin{array}{c}
 \boxed{\textcolor{yellow}{\frac{1}{4}} \quad \textcolor{yellow}{\frac{1}{4}}} \\
 + \\
 \frac{3}{4} \\
 \hline
 \end{array}
 \quad
 \begin{array}{c}
 \boxed{\textcolor{yellow}{\frac{1}{4}} \quad \textcolor{white}{\frac{1}{4}}} \\
 + \\
 \frac{2}{4} \\
 \hline
 \end{array}
 \quad
 \begin{array}{c}
 \boxed{\textcolor{yellow}{\frac{1}{4}} \quad \textcolor{yellow}{\frac{1}{4}}} \\
 + \\
 \frac{}{4} \\
 \hline
 \end{array}
 \quad
 = \quad
 \begin{array}{c}
 \boxed{\textcolor{yellow}{\frac{1}{4}} \quad \textcolor{white}{\frac{1}{4}}} \\
 + \\
 \frac{5}{4} \\
 \hline
 \end{array}$$

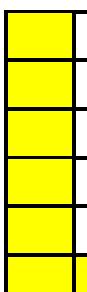
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 \frac{4}{8} \\
 \hline
 \end{array}
 \quad
 \begin{array}{c}
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 + \\
 \frac{5}{8} \\
 \hline
 \end{array}
 \quad
 \begin{array}{c}
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 + \\
 \frac{9}{8} \\
 \hline
 \end{array}$$

$$\begin{array}{c}
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 + \\
 \frac{2}{5} \\
 \hline
 \end{array}
 \quad
 \begin{array}{c}
 \boxed{\textcolor{yellow}{\frac{1}{5}} \quad \textcolor{yellow}{\frac{1}{5}} \quad \textcolor{white}{\frac{1}{5}}} \\
 + \\
 \frac{1}{5} \\
 \hline
 \end{array}
 \quad
 \begin{array}{c}
 \boxed{\textcolor{yellow}{\frac{1}{5}} \quad \textcolor{white}{\frac{1}{5}} \quad \textcolor{white}{\frac{1}{5}} \quad \textcolor{white}{\frac{1}{5}}} \\
 + \\
 \frac{}{5} \\
 \hline
 \end{array}
 \quad
 = \quad
 \begin{array}{c}
 \boxed{\textcolor{yellow}{\frac{1}{5}} \quad \textcolor{yellow}{\frac{1}{5}} \quad \textcolor{yellow}{\frac{1}{5}} \quad \textcolor{white}{\frac{1}{5}}} \\
 + \\
 \frac{3}{5} \\
 \hline
 \end{array}$$

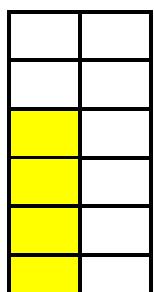


ETKİNLİK 1:

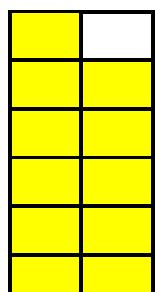
Aşağıdaki modelleri verilen toplama işlemlerini örnekteki gibi yapalım.



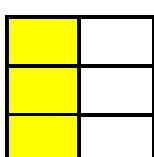
$$\frac{7}{12}$$



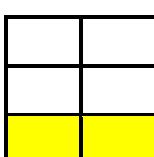
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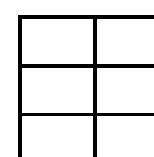
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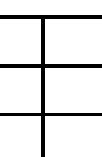
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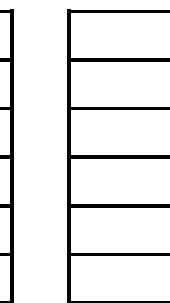
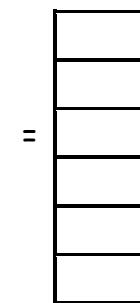
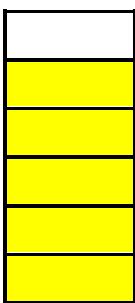
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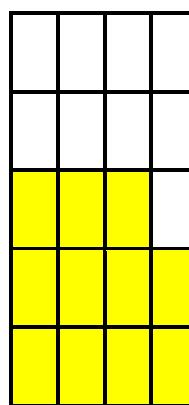
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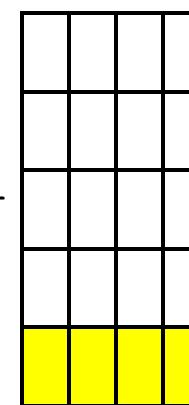
+

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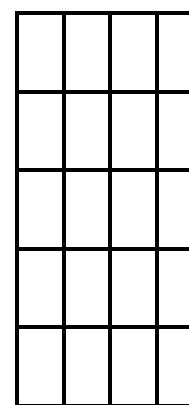
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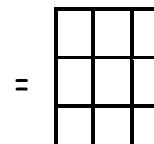
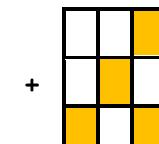
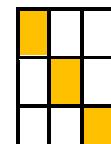
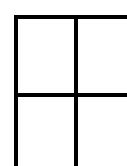
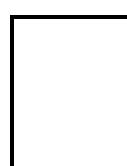
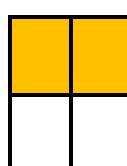
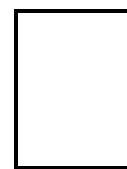
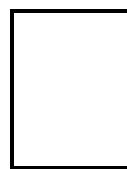
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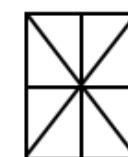
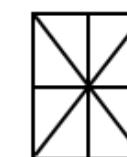
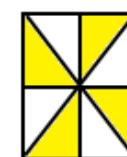
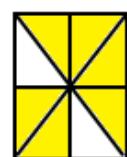
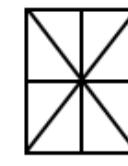
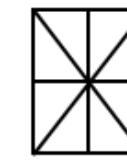
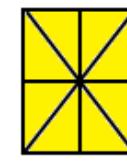
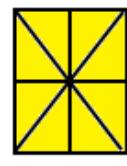
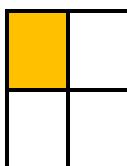
=



- + - = -



- + - = -



- + - = -

ETKİNLİK 2:

Aşağıdaki toplama işlemlerini örnekteki gibi yapalım.

$\frac{3}{8}$	+	$\frac{10}{8}$	=	$\frac{13}{8}$
$\frac{7}{12}$	+	$\frac{5}{12}$	=	—
$\frac{25}{51}$	+	$\frac{32}{51}$	=	—

$\frac{19}{32}$	+	$\frac{15}{32}$	=	—
$\frac{6}{83}$	+	$\frac{18}{83}$	=	—
$\frac{24}{45}$	+	$\frac{17}{45}$	=	—

$\frac{14}{53}$	+	$\frac{28}{53}$	=	—
$\frac{4}{66}$	+	$\frac{17}{66}$	=	—
$\frac{38}{36}$	+	$\frac{19}{36}$	=	—

$5\frac{7}{13}$	+	$3\frac{4}{13}$	=	$8\frac{11}{13}$
$7\frac{9}{33}$	+	$8\frac{16}{33}$	=	—
$13\frac{21}{53}$	+	$14\frac{19}{53}$	=	—

$2\frac{7}{29}$	+	$9\frac{15}{29}$	=	—
$14\frac{19}{48}$	+	$7\frac{24}{48}$	=	—
$9\frac{27}{67}$	+	$8\frac{18}{67}$	=	—

$13\frac{27}{71}$	+	$7\frac{13}{71}$	=	—
$24\frac{22}{84}$	+	$7\frac{49}{84}$	=	—
$15\frac{25}{99}$	+	$17\frac{47}{99}$	=	—

9	+	$5\frac{9}{18}$	=	$14\frac{9}{18}$
$8\frac{16}{27}$	+	29	=	—
18	+	$15\frac{18}{39}$	=	—

$24\frac{37}{46}$	+	13	=	—
24	+	$38\frac{34}{56}$	=	—
$47\frac{48}{67}$	+	34	=	—

48	+	$16\frac{57}{75}$	=	—
$29\frac{66}{81}$	+	52	=	—
69	+	$23\frac{75}{98}$	=	—

ETKİNLİK 3:

Aşağıda kesirlerle yapılan toplama işleminde örnekte olduğu gibi verilmeyen sayıyı bulalım.

$\frac{6}{9}$	+	$\frac{11}{9}$	=	$\frac{17}{9}$	$17 - 6 = 11$
$\frac{9}{17}$	+	$\frac{9}{17}$	=	$\frac{28}{17}$
$\frac{18}{30}$	+	$\frac{9}{30}$	=	$\frac{26}{30}$
$\frac{26}{45}$	+	$\frac{8}{45}$	=	$\frac{34}{45}$
$\frac{36}{53}$	+	$\frac{5}{53}$	=	$\frac{61}{53}$



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$7\frac{29}{61}$	+	$2\frac{25}{61}$	=	$9\frac{54}{61}$	$9 - 7 = 2 \text{ tam}$ $54 - 29 = 25$
$\overline{72}$	+	$9\frac{37}{72}$	=	$12\frac{61}{72}$
$13\frac{26}{84}$	+	$\overline{84}$	=	$22\frac{52}{84}$
$\overline{90}$	+	$17\frac{48}{90}$	=	$34\frac{79}{90}$
$26\frac{19}{95}$	+	$\overline{95}$	=	$32\frac{43}{95}$

ETKİNLİK 4:

Aşağıdaki tabloları örnekteki gibi dolduralım.

+	$\frac{9}{63}$	$\frac{14}{63}$	$\frac{27}{63}$	$\frac{38}{63}$
$\frac{16}{63}$	$\frac{25}{63}$	—	—	—
$\frac{26}{63}$	—	—	—	—

+	$\frac{17}{77}$	$\frac{45}{77}$	$\frac{62}{77}$	$\frac{71}{77}$
$\frac{29}{77}$	—	—	—	—
$\frac{18}{77}$	—	—	—	—

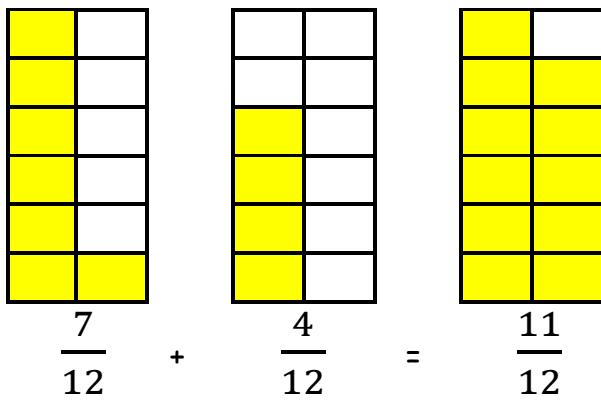
+	$\frac{25}{86}$	$\frac{32}{86}$	$\frac{46}{86}$	$\frac{57}{86}$
$\frac{19}{86}$	—	—	—	—
$\frac{29}{86}$	—	—	—	—

+	$\frac{39}{93}$	$\frac{28}{93}$	$\frac{48}{93}$	$\frac{37}{93}$
$\frac{35}{93}$	—	—	—	—
$\frac{46}{93}$	—	—	—	—

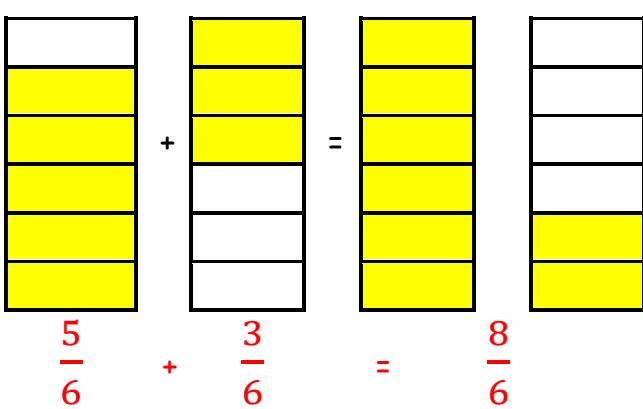


ETKİNLİK 1:

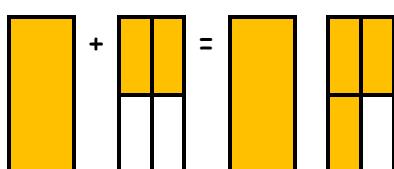
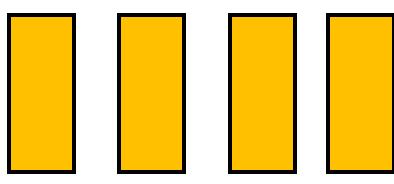
Aşağıdaki modelleri verilen toplama işlemlerini örnekteki gibi yapalım.



$$\begin{array}{c} \text{+} \\ \frac{3}{6} \end{array} + \begin{array}{c} \text{+} \\ \frac{2}{6} \end{array} = \begin{array}{c} \text{=} \\ \frac{5}{6} \end{array}$$

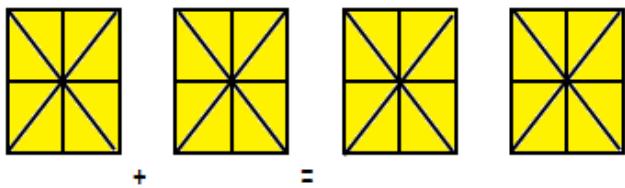


$$\begin{array}{c} \text{+} \\ \frac{11}{20} \end{array} + \begin{array}{c} \text{+} \\ \frac{4}{20} \end{array} = \begin{array}{c} \text{=} \\ \frac{15}{20} \end{array}$$



$$\begin{array}{c} \text{+} \\ \frac{3}{9} \end{array} + \begin{array}{c} \text{+} \\ \frac{4}{9} \end{array} = \begin{array}{c} \text{=} \\ \frac{7}{9} \end{array}$$

A 4x4 square is shown with 1 yellow square in the top-left corner. Below it is the fraction $2\frac{1}{4}$. To its right is another 4x4 square with 2 yellow squares in the top-left corner. Below it is the fraction $1\frac{2}{4}$. Below these is the equation $2\frac{1}{4} + 1\frac{2}{4} = 3\frac{3}{4}$.



$$\begin{array}{c} \text{+} \\ \frac{14}{8} \end{array} + \begin{array}{c} \text{+} \\ \frac{12}{8} \end{array} = \begin{array}{c} \text{=} \\ \frac{26}{8} \end{array}$$

ETKİNLİK 2:

Aşağıdaki toplama işlemlerini örnekteki gibi yapalım.

$$\begin{array}{r} \frac{3}{8} \\ + \quad \frac{10}{8} \\ = \quad \frac{13}{8} \end{array}$$

$$\begin{array}{r} \frac{7}{12} \\ + \quad \frac{5}{12} \\ = \quad \frac{12}{12} \end{array}$$

$$\begin{array}{r} \frac{25}{51} \\ + \quad \frac{32}{51} \\ = \quad \frac{57}{51} \end{array}$$

$$\begin{array}{r} \frac{19}{32} \\ + \quad \frac{15}{32} \\ = \quad \frac{34}{32} \end{array}$$

$$\begin{array}{r} \frac{6}{83} \\ + \quad \frac{18}{83} \\ = \quad \frac{24}{83} \end{array}$$

$$\begin{array}{r} \frac{24}{45} \\ + \quad \frac{17}{45} \\ = \quad \frac{41}{45} \end{array}$$

$$\begin{array}{r} \frac{14}{53} \\ + \quad \frac{28}{53} \\ = \quad \frac{42}{53} \end{array}$$

$$\begin{array}{r} \frac{4}{66} \\ + \quad \frac{17}{66} \\ = \quad \frac{21}{66} \end{array}$$

$$\begin{array}{r} \frac{38}{36} \\ + \quad \frac{19}{36} \\ = \quad \frac{57}{36} \end{array}$$

$$\begin{array}{r} 5\frac{7}{13} \\ + \quad 3\frac{4}{13} \\ = \quad 8\frac{11}{13} \end{array}$$

$$\begin{array}{r} 7\frac{9}{33} \\ + \quad 8\frac{16}{33} \\ = \quad 15\frac{25}{33} \end{array}$$

$$\begin{array}{r} 13\frac{21}{53} \\ + \quad 14\frac{19}{53} \\ = \quad 27\frac{40}{53} \end{array}$$

$$\begin{array}{r} 2\frac{7}{29} \\ + \quad 9\frac{15}{29} \\ = \quad 11\frac{22}{29} \end{array}$$

$$\begin{array}{r} 14\frac{19}{48} \\ + \quad 7\frac{24}{48} \\ = \quad 21\frac{43}{48} \end{array}$$

$$\begin{array}{r} 9\frac{27}{67} \\ + \quad 8\frac{18}{67} \\ = \quad 17\frac{45}{67} \end{array}$$

$$\begin{array}{r} 13\frac{27}{71} \\ + \quad 7\frac{13}{71} \\ = \quad 20\frac{40}{71} \end{array}$$

$$\begin{array}{r} 24\frac{22}{84} \\ + \quad 7\frac{49}{84} \\ = \quad 31\frac{71}{84} \end{array}$$

$$\begin{array}{r} 15\frac{25}{99} \\ + \quad 17\frac{47}{99} \\ = \quad 32\frac{72}{99} \end{array}$$

$$\begin{array}{r} 9 \\ + \quad 5\frac{9}{18} \\ = \quad 14\frac{9}{18} \end{array}$$

$$\begin{array}{r} 8\frac{16}{27} \\ + \quad 29 \\ = \quad 37\frac{16}{27} \end{array}$$

$$\begin{array}{r} 18 \\ + \quad 15\frac{18}{39} \\ = \quad 33\frac{18}{39} \end{array}$$

$$\begin{array}{r} 24\frac{37}{46} \\ + \quad 13 \\ = \quad 37\frac{37}{46} \end{array}$$

$$\begin{array}{r} 24 \\ + \quad 38\frac{34}{56} \\ = \quad 62\frac{34}{56} \end{array}$$

$$\begin{array}{r} 47\frac{48}{67} \\ + \quad 34 \\ = \quad 81\frac{48}{67} \end{array}$$

$$\begin{array}{r} 48 \\ + \quad 16\frac{57}{75} \\ = \quad 64\frac{57}{75} \end{array}$$

$$\begin{array}{r} 29\frac{66}{81} \\ + \quad 52 \\ = \quad 81\frac{66}{81} \end{array}$$

$$\begin{array}{r} 69 \\ + \quad 23\frac{75}{98} \\ = \quad 92\frac{75}{98} \end{array}$$

ETKİNLİK 3:

Aşağıda kesirlerle yapılan toplama işleminde örnekte olduğu gibi verilmeyen sayıyı bulalım.

$\frac{6}{9}$	+	$\frac{11}{9}$	=	$\frac{17}{9}$	$17 - 6 = 11$
$\frac{19}{17}$	+	$\frac{9}{17}$	=	$\frac{28}{17}$	$28 - 9 = 19$
$\frac{18}{30}$	+	$\frac{8}{30}$	=	$\frac{26}{30}$	$26 - 18 = 8$
$\frac{8}{45}$	+	$\frac{26}{45}$	=	$\frac{34}{45}$	$34 - 26 = 8$
$\frac{36}{53}$	+	$\frac{25}{53}$	=	$\frac{61}{53}$	$61 - 36 = 25$



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$7\frac{29}{61}$	+	$2\frac{25}{61}$	=	$9\frac{54}{61}$	$9 - 7 = 2 \text{ tam}$ $54 - 29 = 25$
$3\frac{24}{72}$	+	$9\frac{37}{72}$	=	$12\frac{61}{72}$	$12 - 9 = 3$ $61 - 37 = 24$
$13\frac{26}{84}$	+	$9\frac{26}{84}$	=	$22\frac{52}{84}$	$22 - 13 = 9$ $52 - 26 = 26$
$17\frac{31}{90}$	+	$17\frac{48}{90}$	=	$34\frac{79}{90}$	$34 - 17 = 17$ $79 - 48 = 31$
$26\frac{19}{95}$	+	$6\frac{24}{95}$	=	$32\frac{43}{95}$	$32 - 26 = 6$ $43 - 19 = 24$

ETKİNLİK 4:

Aşağıdaki tabloları örnekteki gibi dolduralım.

+	$\frac{9}{63}$	$\frac{14}{63}$	$\frac{27}{63}$	$\frac{38}{63}$
$\frac{16}{63}$	$\frac{25}{63}$	$\frac{30}{63}$	$\frac{43}{63}$	$\frac{54}{63}$
$\frac{26}{63}$	$\frac{35}{63}$	$\frac{40}{63}$	$\frac{53}{63}$	$\frac{64}{63}$

+	$\frac{17}{77}$	$\frac{45}{77}$	$\frac{62}{77}$	$\frac{71}{77}$
$\frac{29}{77}$	$\frac{46}{77}$	$\frac{74}{77}$	$\frac{91}{77}$	$\frac{100}{77}$
$\frac{18}{77}$	$\frac{35}{77}$	$\frac{63}{77}$	$\frac{80}{77}$	$\frac{89}{77}$

+	$\frac{25}{86}$	$\frac{32}{86}$	$\frac{46}{86}$	$\frac{57}{86}$
$\frac{19}{86}$	$\frac{44}{86}$	$\frac{51}{86}$	$\frac{65}{86}$	$\frac{76}{86}$
$\frac{29}{86}$	$\frac{54}{86}$	$\frac{61}{86}$	$\frac{75}{86}$	$\frac{86}{86}$

+	$\frac{39}{93}$	$\frac{28}{93}$	$\frac{48}{93}$	$\frac{37}{93}$
$\frac{35}{93}$	$\frac{74}{93}$	$\frac{63}{93}$	$\frac{83}{93}$	$\frac{72}{93}$
$\frac{46}{93}$	$\frac{85}{93}$	$\frac{74}{93}$	$\frac{94}{93}$	$\frac{83}{93}$

