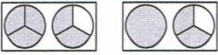
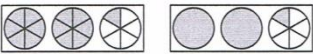


Gemischte Zahlen


1 Welche gemischte Zahl ist dargestellt?


a)  $\frac{3}{3} + \frac{3}{3} = \frac{6}{3} = 2$


b)  $\frac{6}{3} + \frac{1}{3} = \frac{7}{3} = 2\frac{1}{3}$

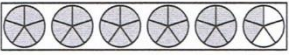
Bruch → gemischte Zahl	$\frac{17}{3}$	Gemischte Zahl → Bruch	$2\frac{1}{7}$
(1) Nebenrechnung - Bruch in Ganze verwandeln - Zähler des Rest- bruches bestimmen	$\frac{15}{3} = 5$ $17 - 15 = 2$	(1) Nebenrechnung - Ganze in Bruch verwandeln - Zähler bestimmen	$2 = \frac{14}{7}$ $14 + 1 = 15$
(2) Notieren	$\frac{17}{3} = 5\frac{2}{3}$	(2) Notieren	$2\frac{1}{7} = \frac{15}{7}$

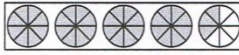
2 Schreibe als Bruch und als gemischte Zahl.


a)  $\frac{4}{3} = 1\frac{1}{3}$

b)  $\frac{6}{3} = 2$

c)  $\frac{8}{3} = 2\frac{2}{3}$

d)  $\frac{12}{3} = 4$

e)  $\frac{10}{3} = 3\frac{1}{3}$

f)  $\frac{4}{3} = 1\frac{1}{3}$

3 Schreibe als gemischte Zahl.

a) $\frac{8}{3} = 2 + \frac{2}{3} = 2\frac{2}{3}$

b) $\frac{5}{4} = 1 + \frac{1}{4} = 1\frac{1}{4}$

c) $\frac{8}{7} = 1 + \frac{1}{7} = 1\frac{1}{7}$

d) $\frac{11}{5} = 2 + \frac{1}{5} = 2\frac{1}{5}$

e) $\frac{12}{8} = 1 + \frac{4}{8} = 1\frac{1}{2}$

f) $\frac{19}{9} = 2 + \frac{1}{9} = 2\frac{1}{9}$

g) $\frac{13}{6} = 2 + \frac{1}{6} = 2\frac{1}{6}$

h) $\frac{80}{11} = 7 + \frac{3}{11} = 7\frac{3}{11}$

i) $\frac{66}{13} = 5 + \frac{1}{13} = 5\frac{1}{13}$

4 Schreibe als Bruch.

a) $2\frac{3}{4} = \frac{8}{4} + \frac{3}{4} = \frac{11}{4}$

b) $5\frac{5}{8} = \frac{40}{8} + \frac{5}{8} = \frac{45}{8}$

c) $7\frac{8}{11} = \frac{77}{11} + \frac{8}{11} = \frac{85}{11}$

d) $9\frac{5}{15} = \frac{135}{15} + \frac{5}{15} = \frac{140}{15} = \frac{28}{3}$

e) $11\frac{2}{3} = \frac{77}{3} + \frac{2}{3} = \frac{79}{3}$

f) $15\frac{5}{9} = \frac{135}{9} + \frac{5}{9} = \frac{140}{9}$

5 Verwandle in Minuten.


a) $1\frac{1}{3}h = 60 \text{ min} + 20 \text{ min} = 80 \text{ min}$

b) $2\frac{1}{4}h = 120 \text{ min} + 15 \text{ min} = 135 \text{ min}$


c) $\frac{5}{4}h = 75 \text{ min}$

d) $\frac{10}{3}h = 200 \text{ min} + 40 \text{ min} = 240 \text{ min}$


 natürliche Zahl
↓ Bruch
 $2 + \frac{1}{4} = 2\frac{1}{4}$
↑
gemischte Zahl



 $1 = \frac{1}{1} = \frac{2}{2} = \frac{3}{3} = \dots$
 $2 = \frac{2}{1} = \frac{4}{2} = \frac{6}{3} = \frac{8}{4} = \dots$
 $3 = \frac{3}{1} = \frac{6}{2} = \frac{9}{3} = \frac{12}{4} = \dots$

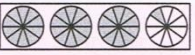
zu 1 bis 3
 $1\frac{1}{7}; 1\frac{1}{4}; 1\frac{1}{3}; 1\frac{4}{8}; 1\frac{3}{5}; 1\frac{2}{3};$
 $2\frac{1}{9}; 2\frac{1}{6}; 2\frac{1}{6}; 2\frac{1}{5}; 2\frac{3}{10};$
 $2\frac{2}{3}; 3\frac{7}{8}; 4\frac{3}{8}; 5\frac{1}{13}; 5\frac{2}{5}; 7\frac{3}{11}$

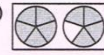

 $1\frac{1}{2}h$
 $= 60 \text{ min} + 30 \text{ min}$
 $= 90 \text{ min}$


2.1 Schreibe als Bruch und als gemischte Zahl.


a)  $\frac{4}{3} = 1\frac{1}{3}$


b)  $\frac{6}{3} = 2$


c)  $\frac{8}{3} = 2\frac{2}{3}$

d)  $\frac{4}{3} = 1\frac{1}{3}$

e)  $\frac{10}{3} = 3\frac{1}{3}$

f)  $\frac{6}{3} = 2$

g)  $\frac{4}{3} = 1\frac{1}{3}$

h)  $\frac{4}{3} = 1\frac{1}{3}$

3.1 Schreibe als gemischte Zahl.

a) $\frac{9}{4} = 2\frac{1}{4}$ b) $\frac{12}{5} = 2\frac{2}{5}$ c) $\frac{9}{2} = 4\frac{1}{2}$ d) $\frac{21}{12} = 1\frac{5}{4} = 2\frac{1}{4}$ e) $\frac{33}{8} = 4\frac{1}{8}$

f) $\frac{113}{20} = 5\frac{13}{20}$ g) $\frac{218}{27} = 8\frac{2}{27}$ h) $\frac{90}{11} = 8\frac{2}{11}$ i) $\frac{83}{62} = 1\frac{21}{62}$ j) $\frac{147}{12} = 12\frac{3}{4}$

4.1 Schreibe als Bruch.

a) $3\frac{4}{5} = \frac{19}{5}$ b) $5\frac{2}{7} = \frac{37}{7}$ c) $8\frac{2}{3} = \frac{26}{3}$ d) $9\frac{4}{9} = \frac{85}{9}$ e) $2\frac{7}{12} = \frac{31}{6}$

6 Stelle die gemischten Zahlen in jeweils drei verschiedenen Abbildungen dar.

a) $2\frac{1}{2}$ b) $3\frac{3}{5}$ c) $4\frac{3}{8}$ d) $1\frac{1}{6}$