Bruchrechnung:

Brüche addieren

Variante **1**

Blatt **59**

Klasse: _____   Datum: _____

Name: _____

Addiere die Brüche und wandle in einen gemischten Bruch um, falls möglich:

1 a) $\dfrac{25}{44} + \dfrac{17}{22} =$

b) $\dfrac{2}{33} + \dfrac{5}{11} =$

c) $\dfrac{5}{26} + \dfrac{7}{13} =$

d) $\dfrac{23}{44} + \dfrac{1}{4} =$

2 a) $\dfrac{19}{34} + \dfrac{12}{17} =$

b) $\dfrac{1}{10} + \dfrac{7}{15} =$

c) $\dfrac{13}{32} + \dfrac{13}{16} =$

d) $\dfrac{9}{13} + \dfrac{25}{39} =$

3 a) $\dfrac{16}{19} + \dfrac{1}{38} =$

b) $\dfrac{11}{20} + \dfrac{4}{5} =$

c) $\dfrac{13}{14} + \dfrac{11}{42} =$

d) $\dfrac{1}{24} + \dfrac{5}{12} =$

4 a) $\dfrac{6}{7} + \dfrac{27}{28} =$

b) $\dfrac{13}{15} + \dfrac{7}{10} =$

c) $\dfrac{7}{33} + \dfrac{4}{11} =$

d) $\dfrac{8}{9} + \dfrac{23}{27} =$

5 a) $\dfrac{3}{20} + \dfrac{7}{12} =$

b) $\dfrac{12}{19} + \dfrac{5}{38} =$

c) $\dfrac{19}{22} + \dfrac{15}{44} =$

d) $\dfrac{9}{26} + \dfrac{3}{4} =$

Addiere die Brüche und wandle in einen gemischten Bruch um, falls möglich:

① a) $\dfrac{25}{44} + \dfrac{17}{22} = \dfrac{25}{44} + \dfrac{34}{44} = \dfrac{59}{44} = 1\dfrac{15}{44}$

b) $\dfrac{2}{33} + \dfrac{5}{11} = \dfrac{2}{33} + \dfrac{15}{33} = \dfrac{17}{33}$

c) $\dfrac{5}{26} + \dfrac{7}{13} = \dfrac{5}{26} + \dfrac{14}{26} = \dfrac{19}{26}$

d) $\dfrac{23}{44} + \dfrac{1}{4} = \dfrac{23}{44} + \dfrac{11}{44} = \dfrac{34}{44} = \dfrac{17}{22}$

② a) $\dfrac{19}{34} + \dfrac{12}{17} = \dfrac{19}{34} + \dfrac{24}{34} = \dfrac{43}{34} = 1\dfrac{9}{34}$

b) $\dfrac{1}{10} + \dfrac{7}{15} = \dfrac{3}{30} + \dfrac{14}{30} = \dfrac{17}{30}$

c) $\dfrac{13}{32} + \dfrac{13}{16} = \dfrac{13}{32} + \dfrac{26}{32} = \dfrac{39}{32} = 1\dfrac{7}{32}$

d) $\dfrac{9}{13} + \dfrac{25}{39} = \dfrac{27}{39} + \dfrac{25}{39} = \dfrac{52}{39} = 1\dfrac{1}{3}$

③ a) $\dfrac{16}{19} + \dfrac{1}{38} = \dfrac{32}{38} + \dfrac{1}{38} = \dfrac{33}{38}$

b) $\dfrac{11}{20} + \dfrac{4}{5} = \dfrac{11}{20} + \dfrac{16}{20} = \dfrac{27}{20} = 1\dfrac{7}{20}$

c) $\dfrac{13}{14} + \dfrac{11}{42} = \dfrac{39}{42} + \dfrac{11}{42} = \dfrac{50}{42} = 1\dfrac{4}{21}$

d) $\dfrac{1}{24} + \dfrac{5}{12} = \dfrac{1}{24} + \dfrac{10}{24} = \dfrac{11}{24}$

④ a) $\dfrac{6}{7} + \dfrac{27}{28} = \dfrac{24}{28} + \dfrac{27}{28} = \dfrac{51}{28} = 1\dfrac{23}{28}$

b) $\dfrac{13}{15} + \dfrac{7}{10} = \dfrac{26}{30} + \dfrac{21}{30} = \dfrac{47}{30} = 1\dfrac{17}{30}$

c) $\dfrac{7}{33} + \dfrac{4}{11} = \dfrac{7}{33} + \dfrac{12}{33} = \dfrac{19}{33}$

d) $\dfrac{8}{9} + \dfrac{23}{27} = \dfrac{24}{27} + \dfrac{23}{27} = \dfrac{47}{27} = 1\dfrac{20}{27}$

⑤ a) $\dfrac{3}{20} + \dfrac{7}{12} = \dfrac{9}{60} + \dfrac{35}{60} = \dfrac{44}{60} = \dfrac{11}{15}$

b) $\dfrac{12}{19} + \dfrac{5}{38} = \dfrac{24}{38} + \dfrac{5}{38} = \dfrac{29}{38}$

c) $\dfrac{19}{22} + \dfrac{15}{44} = \dfrac{38}{44} + \dfrac{15}{44} = \dfrac{53}{44} = 1\dfrac{9}{44}$

d) $\dfrac{9}{26} + \dfrac{3}{4} = \dfrac{18}{52} + \dfrac{39}{52} = \dfrac{57}{52} = 1\dfrac{5}{52}$