

**Brüche kürzen
und erweitern (knifflig)**

Variante 7

Klasse: _____ Datum: _____

Blatt 1

Name: _____

Ergänze die fehlenden Zähler und Nenner (erst kürzen, dann erweitern):

① a) $\frac{6}{9} = \frac{\quad}{6}$ b) $\frac{22}{60} = \frac{33}{\quad}$ c) $\frac{81}{90} = \frac{\quad}{40}$ d) $\frac{18}{96} = \frac{15}{\quad}$

e) $\frac{18}{75} = \frac{\quad}{50}$ f) $\frac{24}{44} = \frac{30}{\quad}$ g) $\frac{14}{28} = \frac{\quad}{10}$ h) $\frac{27}{45} = \frac{6}{\quad}$

② a) $\frac{18}{27} = \frac{\quad}{12}$ b) $\frac{3}{48} = \frac{5}{\quad}$ c) $\frac{21}{56} = \frac{\quad}{32}$ d) $\frac{6}{75} = \frac{4}{\quad}$

e) $\frac{70}{90} = \frac{\quad}{36}$ f) $\frac{15}{25} = \frac{6}{\quad}$ g) $\frac{68}{85} = \frac{\quad}{10}$ h) $\frac{50}{60} = \frac{20}{\quad}$

③ a) $\frac{20}{35} = \frac{\quad}{49}$ b) $\frac{35}{65} = \frac{14}{\quad}$ c) $\frac{4}{84} = \frac{\quad}{63}$ d) $\frac{60}{69} = \frac{80}{\quad}$

e) $\frac{8}{60} = \frac{\quad}{45}$ f) $\frac{30}{45} = \frac{4}{\quad}$ g) $\frac{66}{81} = \frac{\quad}{54}$ h) $\frac{52}{58} = \frac{78}{\quad}$

④ a) $\frac{14}{21} = \frac{\quad}{9}$ b) $\frac{35}{49} = \frac{30}{\quad}$ c) $\frac{26}{52} = \frac{\quad}{12}$ d) $\frac{9}{42} = \frac{15}{\quad}$

e) $\frac{9}{30} = \frac{\quad}{20}$ f) $\frac{36}{45} = \frac{16}{\quad}$ g) $\frac{44}{99} = \frac{\quad}{45}$ h) $\frac{4}{32} = \frac{5}{\quad}$

⑤ a) $\frac{21}{30} = \frac{\quad}{20}$ b) $\frac{4}{52} = \frac{7}{\quad}$ c) $\frac{65}{80} = \frac{\quad}{32}$ d) $\frac{20}{90} = \frac{14}{\quad}$

e) $\frac{81}{99} = \frac{\quad}{66}$ f) $\frac{3}{51} = \frac{2}{\quad}$ g) $\frac{9}{33} = \frac{\quad}{55}$ h) $\frac{84}{91} = \frac{24}{\quad}$

Ergänze die fehlenden Zähler und Nenner (erst kürzen, dann erweitern):

① a) $\frac{6}{9} = \frac{4}{6}$ b) $\frac{22}{60} = \frac{33}{90}$ c) $\frac{81}{90} = \frac{36}{40}$ d) $\frac{18}{96} = \frac{15}{80}$

e) $\frac{18}{75} = \frac{12}{50}$ f) $\frac{24}{44} = \frac{30}{55}$ g) $\frac{14}{28} = \frac{5}{10}$ h) $\frac{27}{45} = \frac{6}{10}$

② a) $\frac{18}{27} = \frac{8}{12}$ b) $\frac{3}{48} = \frac{5}{80}$ c) $\frac{21}{56} = \frac{12}{32}$ d) $\frac{6}{75} = \frac{4}{50}$

e) $\frac{70}{90} = \frac{28}{36}$ f) $\frac{15}{25} = \frac{6}{10}$ g) $\frac{68}{85} = \frac{8}{10}$ h) $\frac{50}{60} = \frac{20}{24}$

③ a) $\frac{20}{35} = \frac{28}{49}$ b) $\frac{35}{65} = \frac{14}{26}$ c) $\frac{4}{84} = \frac{3}{63}$ d) $\frac{60}{69} = \frac{80}{92}$

e) $\frac{8}{60} = \frac{6}{45}$ f) $\frac{30}{45} = \frac{4}{6}$ g) $\frac{66}{81} = \frac{44}{54}$ h) $\frac{52}{58} = \frac{78}{87}$

④ a) $\frac{14}{21} = \frac{6}{9}$ b) $\frac{35}{49} = \frac{30}{42}$ c) $\frac{26}{52} = \frac{6}{12}$ d) $\frac{9}{42} = \frac{15}{70}$

e) $\frac{9}{30} = \frac{6}{20}$ f) $\frac{36}{45} = \frac{16}{20}$ g) $\frac{44}{99} = \frac{20}{45}$ h) $\frac{4}{32} = \frac{5}{40}$

⑤ a) $\frac{21}{30} = \frac{14}{20}$ b) $\frac{4}{52} = \frac{7}{91}$ c) $\frac{65}{80} = \frac{26}{32}$ d) $\frac{20}{90} = \frac{14}{63}$

e) $\frac{81}{99} = \frac{54}{66}$ f) $\frac{3}{51} = \frac{2}{34}$ g) $\frac{9}{33} = \frac{15}{55}$ h) $\frac{84}{91} = \frac{24}{26}$