Brüche kürzen und erweitern (knifflig) Variante **7** Blatt **12** Klasse: ____ Datum: _____ Name: _____

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

1

a) $\frac{18}{87} = \frac{\quad}{58}$ b) $\frac{20}{64} = \frac{15}{\quad}$ c) $\frac{12}{52} = \frac{\quad}{39}$ d) $\frac{24}{30} = \frac{20}{\quad}$

e) $\frac{54}{81} = \frac{\quad}{12}$ f) $\frac{12}{56} = \frac{18}{\quad}$ g) $\frac{39}{60} = \frac{\quad}{80}$ h) $\frac{80}{95} = \frac{32}{\quad}$

2

a) $\frac{50}{54} = \frac{\quad}{81}$ b) $\frac{16}{56} = \frac{14}{\quad}$ c) $\frac{7}{56} = \frac{\quad}{32}$ d) $\frac{3}{27} = \frac{4}{\quad}$

e) $\frac{28}{70} = \frac{\quad}{25}$ f) $\frac{36}{80} = \frac{27}{\quad}$ g) $\frac{2}{22} = \frac{\quad}{77}$ h) $\frac{20}{46} = \frac{30}{\quad}$

3

a) $\frac{32}{44} = \frac{\quad}{55}$ b) $\frac{18}{34} = \frac{27}{\quad}$ c) $\frac{32}{34} = \frac{\quad}{85}$ d) $\frac{21}{27} = \frac{35}{\quad}$

e) $\frac{33}{54} = \frac{\quad}{72}$ f) $\frac{80}{84} = \frac{60}{\quad}$ g) $\frac{15}{65} = \frac{\quad}{91}$ h) $\frac{20}{95} = \frac{8}{\quad}$

4

a) $\frac{42}{63} = \frac{\quad}{18}$ b) $\frac{10}{25} = \frac{8}{\quad}$ c) $\frac{18}{63} = \frac{\quad}{14}$ d) $\frac{40}{52} = \frac{60}{\quad}$

e) $\frac{28}{60} = \frac{\quad}{45}$ f) $\frac{88}{99} = \frac{48}{\quad}$ g) $\frac{10}{34} = \frac{\quad}{51}$ h) $\frac{9}{39} = \frac{6}{\quad}$

5

a) $\frac{22}{55} = \frac{\quad}{35}$ b) $\frac{13}{52} = \frac{5}{\quad}$ c) $\frac{2}{50} = \frac{\quad}{75}$ d) $\frac{2}{26} = \frac{7}{\quad}$

e) $\frac{40}{60} = \frac{\quad}{21}$ f) $\frac{30}{50} = \frac{9}{\quad}$ g) $\frac{26}{28} = \frac{\quad}{42}$ h) $\frac{6}{96} = \frac{4}{\quad}$

Brüche kürzen und erweitern (knifflig)

Variante **7**

Blatt **12**

... Lösungen ...

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

1

a) $\frac{18}{87} = \frac{12}{58}$ b) $\frac{20}{64} = \frac{15}{48}$ c) $\frac{12}{52} = \frac{9}{39}$ d) $\frac{24}{30} = \frac{20}{25}$

e) $\frac{54}{81} = \frac{8}{12}$ f) $\frac{12}{56} = \frac{18}{84}$ g) $\frac{39}{60} = \frac{52}{80}$ h) $\frac{80}{95} = \frac{32}{38}$

2

a) $\frac{50}{54} = \frac{75}{81}$ b) $\frac{16}{56} = \frac{14}{49}$ c) $\frac{7}{56} = \frac{4}{32}$ d) $\frac{3}{27} = \frac{4}{36}$

e) $\frac{28}{70} = \frac{10}{25}$ f) $\frac{36}{80} = \frac{27}{60}$ g) $\frac{2}{22} = \frac{7}{77}$ h) $\frac{20}{46} = \frac{30}{69}$

3

a) $\frac{32}{44} = \frac{40}{55}$ b) $\frac{18}{34} = \frac{27}{51}$ c) $\frac{32}{34} = \frac{80}{85}$ d) $\frac{21}{27} = \frac{35}{45}$

e) $\frac{33}{54} = \frac{44}{72}$ f) $\frac{80}{84} = \frac{60}{63}$ g) $\frac{15}{65} = \frac{21}{91}$ h) $\frac{20}{95} = \frac{8}{38}$

4

a) $\frac{42}{63} = \frac{12}{18}$ b) $\frac{10}{25} = \frac{8}{20}$ c) $\frac{18}{63} = \frac{4}{14}$ d) $\frac{40}{52} = \frac{60}{78}$

e) $\frac{28}{60} = \frac{21}{45}$ f) $\frac{88}{99} = \frac{48}{54}$ g) $\frac{10}{34} = \frac{15}{51}$ h) $\frac{9}{39} = \frac{6}{26}$

5

a) $\frac{22}{55} = \frac{14}{35}$ b) $\frac{13}{52} = \frac{5}{20}$ c) $\frac{2}{50} = \frac{3}{75}$ d) $\frac{2}{26} = \frac{7}{91}$

e) $\frac{40}{60} = \frac{14}{21}$ f) $\frac{30}{50} = \frac{9}{15}$ g) $\frac{26}{28} = \frac{39}{42}$ h) $\frac{6}{96} = \frac{4}{64}$