Brüche kürzen und erweitern (knifflig) Variante **7** Blatt **20** Klasse: ____ Datum: _____ Name: _____

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

1

a) $\frac{70}{85} = \frac{\quad}{34}$ b) $\frac{18}{60} = \frac{12}{\quad}$ c) $\frac{21}{33} = \frac{\quad}{77}$ d) $\frac{17}{51} = \frac{7}{\quad}$

e) $\frac{26}{78} = \frac{\quad}{18}$ f) $\frac{26}{91} = \frac{8}{\quad}$ g) $\frac{27}{63} = \frac{\quad}{42}$ h) $\frac{66}{77} = \frac{24}{\quad}$

2

a) $\frac{40}{55} = \frac{\quad}{66}$ b) $\frac{38}{57} = \frac{14}{\quad}$ c) $\frac{21}{48} = \frac{\quad}{32}$ d) $\frac{11}{77} = \frac{5}{\quad}$

e) $\frac{33}{66} = \frac{\quad}{12}$ f) $\frac{45}{70} = \frac{63}{\quad}$ g) $\frac{22}{33} = \frac{\quad}{9}$ h) $\frac{30}{35} = \frac{42}{\quad}$

3

a) $\frac{38}{56} = \frac{\quad}{84}$ b) $\frac{65}{95} = \frac{52}{\quad}$ c) $\frac{26}{64} = \frac{\quad}{96}$ d) $\frac{25}{65} = \frac{15}{\quad}$

e) $\frac{65}{91} = \frac{\quad}{14}$ f) $\frac{30}{42} = \frac{20}{\quad}$ g) $\frac{11}{99} = \frac{\quad}{63}$ h) $\frac{10}{65} = \frac{8}{\quad}$

4

a) $\frac{39}{52} = \frac{\quad}{20}$ b) $\frac{40}{96} = \frac{25}{\quad}$ c) $\frac{64}{88} = \frac{\quad}{33}$ d) $\frac{9}{48} = \frac{15}{\quad}$

e) $\frac{3}{18} = \frac{\quad}{42}$ f) $\frac{42}{66} = \frac{28}{\quad}$ g) $\frac{38}{95} = \frac{\quad}{10}$ h) $\frac{22}{30} = \frac{33}{\quad}$

5

a) $\frac{6}{84} = \frac{\quad}{98}$ b) $\frac{63}{90} = \frac{42}{\quad}$ c) $\frac{5}{35} = \frac{\quad}{21}$ d) $\frac{63}{72} = \frac{42}{\quad}$

e) $\frac{10}{30} = \frac{\quad}{12}$ f) $\frac{21}{98} = \frac{18}{\quad}$ g) $\frac{25}{90} = \frac{\quad}{72}$ h) $\frac{36}{87} = \frac{24}{\quad}$

Brüche kürzen und erweitern (knifflig)

Variante **7**

Blatt **20**

... Lösungen ...

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

1

a) $\frac{70}{85} = \frac{28}{34}$ b) $\frac{18}{60} = \frac{12}{40}$ c) $\frac{21}{33} = \frac{49}{77}$ d) $\frac{17}{51} = \frac{7}{21}$

e) $\frac{26}{78} = \frac{6}{18}$ f) $\frac{26}{91} = \frac{8}{28}$ g) $\frac{27}{63} = \frac{18}{42}$ h) $\frac{66}{77} = \frac{24}{28}$

2

a) $\frac{40}{55} = \frac{48}{66}$ b) $\frac{38}{57} = \frac{14}{21}$ c) $\frac{21}{48} = \frac{14}{32}$ d) $\frac{11}{77} = \frac{5}{35}$

e) $\frac{33}{66} = \frac{6}{12}$ f) $\frac{45}{70} = \frac{63}{98}$ g) $\frac{22}{33} = \frac{6}{9}$ h) $\frac{30}{35} = \frac{42}{49}$

3

a) $\frac{38}{56} = \frac{57}{84}$ b) $\frac{65}{95} = \frac{52}{76}$ c) $\frac{26}{64} = \frac{39}{96}$ d) $\frac{25}{65} = \frac{15}{39}$

e) $\frac{65}{91} = \frac{10}{14}$ f) $\frac{30}{42} = \frac{20}{28}$ g) $\frac{11}{99} = \frac{7}{63}$ h) $\frac{10}{65} = \frac{8}{52}$

4

a) $\frac{39}{52} = \frac{15}{20}$ b) $\frac{40}{96} = \frac{25}{60}$ c) $\frac{64}{88} = \frac{24}{33}$ d) $\frac{9}{48} = \frac{15}{80}$

e) $\frac{3}{18} = \frac{7}{42}$ f) $\frac{42}{66} = \frac{28}{44}$ g) $\frac{38}{95} = \frac{4}{10}$ h) $\frac{22}{30} = \frac{33}{45}$

5

a) $\frac{6}{84} = \frac{7}{98}$ b) $\frac{63}{90} = \frac{42}{60}$ c) $\frac{5}{35} = \frac{3}{21}$ d) $\frac{63}{72} = \frac{42}{48}$

e) $\frac{10}{30} = \frac{4}{12}$ f) $\frac{21}{98} = \frac{18}{84}$ g) $\frac{25}{90} = \frac{20}{72}$ h) $\frac{36}{87} = \frac{24}{58}$