Brüche kürzen und erweitern (knifflig) Variante **7** Blatt **18** Klasse: ____ Datum: _____ Name: _____

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

1

a) $\frac{12}{39} = \frac{\quad}{91}$ b) $\frac{45}{50} = \frac{36}{\quad}$ c) $\frac{56}{88} = \frac{\quad}{66}$ d) $\frac{9}{45} = \frac{2}{\quad}$

e) $\frac{35}{42} = \frac{\quad}{24}$ f) $\frac{14}{30} = \frac{35}{\quad}$ g) $\frac{40}{68} = \frac{\quad}{85}$ h) $\frac{24}{27} = \frac{32}{\quad}$

2

a) $\frac{35}{55} = \frac{\quad}{44}$ b) $\frac{72}{93} = \frac{48}{\quad}$ c) $\frac{45}{69} = \frac{\quad}{46}$ d) $\frac{12}{27} = \frac{16}{\quad}$

e) $\frac{56}{60} = \frac{\quad}{75}$ f) $\frac{96}{99} = \frac{64}{\quad}$ g) $\frac{57}{95} = \frac{\quad}{25}$ h) $\frac{3}{42} = \frac{2}{\quad}$

3

a) $\frac{8}{44} = \frac{\quad}{55}$ b) $\frac{10}{95} = \frac{6}{\quad}$ c) $\frac{5}{80} = \frac{\quad}{96}$ d) $\frac{60}{99} = \frac{40}{\quad}$

e) $\frac{6}{10} = \frac{\quad}{25}$ f) $\frac{48}{52} = \frac{60}{\quad}$ g) $\frac{9}{27} = \frac{\quad}{6}$ h) $\frac{26}{39} = \frac{6}{\quad}$

4

a) $\frac{28}{35} = \frac{\quad}{30}$ b) $\frac{18}{28} = \frac{45}{\quad}$ c) $\frac{20}{45} = \frac{\quad}{27}$ d) $\frac{42}{81} = \frac{28}{\quad}$

e) $\frac{18}{81} = \frac{\quad}{54}$ f) $\frac{8}{72} = \frac{3}{\quad}$ g) $\frac{20}{70} = \frac{\quad}{21}$ h) $\frac{49}{84} = \frac{42}{\quad}$

5

a) $\frac{42}{96} = \frac{\quad}{64}$ b) $\frac{6}{51} = \frac{10}{\quad}$ c) $\frac{14}{84} = \frac{\quad}{24}$ d) $\frac{36}{76} = \frac{45}{\quad}$

e) $\frac{13}{26} = \frac{\quad}{10}$ f) $\frac{63}{91} = \frac{27}{\quad}$ g) $\frac{66}{84} = \frac{\quad}{98}$ h) $\frac{5}{60} = \frac{3}{\quad}$

Brüche kürzen und erweitern (knifflig)

Variante **7**

Blatt **18**

... Lösungen ...

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

1

a) $\frac{12}{39} = \frac{28}{91}$ b) $\frac{45}{50} = \frac{36}{40}$ c) $\frac{56}{88} = \frac{42}{66}$ d) $\frac{9}{45} = \frac{2}{10}$

e) $\frac{35}{42} = \frac{20}{24}$ f) $\frac{14}{30} = \frac{35}{75}$ g) $\frac{40}{68} = \frac{50}{85}$ h) $\frac{24}{27} = \frac{32}{36}$

2

a) $\frac{35}{55} = \frac{28}{44}$ b) $\frac{72}{93} = \frac{48}{62}$ c) $\frac{45}{69} = \frac{30}{46}$ d) $\frac{12}{27} = \frac{16}{36}$

e) $\frac{56}{60} = \frac{70}{75}$ f) $\frac{96}{99} = \frac{64}{66}$ g) $\frac{57}{95} = \frac{15}{25}$ h) $\frac{3}{42} = \frac{2}{28}$

3

a) $\frac{8}{44} = \frac{10}{55}$ b) $\frac{10}{95} = \frac{6}{57}$ c) $\frac{5}{80} = \frac{6}{96}$ d) $\frac{60}{99} = \frac{40}{66}$

e) $\frac{6}{10} = \frac{15}{25}$ f) $\frac{48}{52} = \frac{60}{65}$ g) $\frac{9}{27} = \frac{2}{6}$ h) $\frac{26}{39} = \frac{6}{9}$

4

a) $\frac{28}{35} = \frac{24}{30}$ b) $\frac{18}{28} = \frac{45}{70}$ c) $\frac{20}{45} = \frac{12}{27}$ d) $\frac{42}{81} = \frac{28}{54}$

e) $\frac{18}{81} = \frac{12}{54}$ f) $\frac{8}{72} = \frac{3}{27}$ g) $\frac{20}{70} = \frac{6}{21}$ h) $\frac{49}{84} = \frac{42}{72}$

5

a) $\frac{42}{96} = \frac{28}{64}$ b) $\frac{6}{51} = \frac{10}{85}$ c) $\frac{14}{84} = \frac{4}{24}$ d) $\frac{36}{76} = \frac{45}{95}$

e) $\frac{13}{26} = \frac{5}{10}$ f) $\frac{63}{91} = \frac{27}{39}$ g) $\frac{66}{84} = \frac{77}{98}$ h) $\frac{5}{60} = \frac{3}{36}$