Brüche kürzen und erweitern (knifflig) Variante **7** Blatt **6** Klasse: ____ Datum: _____ Name: _____

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

1

a) $\frac{10}{45} = \frac{\quad}{63}$ b) $\frac{22}{44} = \frac{7}{\quad}$ c) $\frac{66}{72} = \frac{\quad}{60}$ d) $\frac{54}{63} = \frac{36}{\quad}$

e) $\frac{52}{91} = \frac{\quad}{28}$ f) $\frac{30}{32} = \frac{75}{\quad}$ g) $\frac{58}{87} = \frac{\quad}{15}$ h) $\frac{27}{54} = \frac{4}{\quad}$

2

a) $\frac{14}{63} = \frac{\quad}{27}$ b) $\frac{10}{35} = \frac{4}{\quad}$ c) $\frac{9}{36} = \frac{\quad}{16}$ d) $\frac{34}{44} = \frac{51}{\quad}$

e) $\frac{36}{48} = \frac{\quad}{28}$ f) $\frac{15}{50} = \frac{21}{\quad}$ g) $\frac{64}{76} = \frac{\quad}{57}$ h) $\frac{15}{90} = \frac{7}{\quad}$

3

a) $\frac{49}{63} = \frac{\quad}{27}$ b) $\frac{11}{22} = \frac{7}{\quad}$ c) $\frac{25}{70} = \frac{\quad}{98}$ d) $\frac{6}{36} = \frac{4}{\quad}$

e) $\frac{14}{42} = \frac{\quad}{18}$ f) $\frac{6}{8} = \frac{9}{\quad}$ g) $\frac{32}{72} = \frac{\quad}{27}$ h) $\frac{40}{65} = \frac{32}{\quad}$

4

a) $\frac{42}{54} = \frac{\quad}{63}$ b) $\frac{18}{51} = \frac{12}{\quad}$ c) $\frac{42}{78} = \frac{\quad}{91}$ d) $\frac{45}{80} = \frac{18}{\quad}$

e) $\frac{36}{39} = \frac{\quad}{52}$ f) $\frac{25}{45} = \frac{20}{\quad}$ g) $\frac{15}{75} = \frac{\quad}{35}$ h) $\frac{19}{95} = \frac{2}{\quad}$

5

a) $\frac{90}{96} = \frac{\quad}{80}$ b) $\frac{11}{55} = \frac{2}{\quad}$ c) $\frac{34}{68} = \frac{\quad}{6}$ d) $\frac{12}{16} = \frac{15}{\quad}$

e) $\frac{3}{60} = \frac{\quad}{80}$ f) $\frac{50}{70} = \frac{20}{\quad}$ g) $\frac{6}{60} = \frac{\quad}{70}$ h) $\frac{40}{90} = \frac{16}{\quad}$

Brüche kürzen und erweitern (knifflig)

Variante **7**

Blatt **6**

... Lösungen ...

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

1

a) $\frac{10}{45} = \frac{14}{63}$ b) $\frac{22}{44} = \frac{7}{14}$ c) $\frac{66}{72} = \frac{55}{60}$ d) $\frac{54}{63} = \frac{36}{42}$

e) $\frac{52}{91} = \frac{16}{28}$ f) $\frac{30}{32} = \frac{75}{80}$ g) $\frac{58}{87} = \frac{10}{15}$ h) $\frac{27}{54} = \frac{4}{8}$

2

a) $\frac{14}{63} = \frac{6}{27}$ b) $\frac{10}{35} = \frac{4}{14}$ c) $\frac{9}{36} = \frac{4}{16}$ d) $\frac{34}{44} = \frac{51}{66}$

e) $\frac{36}{48} = \frac{21}{28}$ f) $\frac{15}{50} = \frac{21}{70}$ g) $\frac{64}{76} = \frac{48}{57}$ h) $\frac{15}{90} = \frac{7}{42}$

3

a) $\frac{49}{63} = \frac{21}{27}$ b) $\frac{11}{22} = \frac{7}{14}$ c) $\frac{25}{70} = \frac{35}{98}$ d) $\frac{6}{36} = \frac{4}{24}$

e) $\frac{14}{42} = \frac{6}{18}$ f) $\frac{6}{8} = \frac{9}{12}$ g) $\frac{32}{72} = \frac{12}{27}$ h) $\frac{40}{65} = \frac{32}{52}$

4

a) $\frac{42}{54} = \frac{49}{63}$ b) $\frac{18}{51} = \frac{12}{34}$ c) $\frac{42}{78} = \frac{49}{91}$ d) $\frac{45}{80} = \frac{18}{32}$

e) $\frac{36}{39} = \frac{48}{52}$ f) $\frac{25}{45} = \frac{20}{36}$ g) $\frac{15}{75} = \frac{7}{35}$ h) $\frac{19}{95} = \frac{2}{10}$

5

a) $\frac{90}{96} = \frac{75}{80}$ b) $\frac{11}{55} = \frac{2}{10}$ c) $\frac{34}{68} = \frac{3}{6}$ d) $\frac{12}{16} = \frac{15}{20}$

e) $\frac{3}{60} = \frac{4}{80}$ f) $\frac{50}{70} = \frac{20}{28}$ g) $\frac{6}{60} = \frac{7}{70}$ h) $\frac{40}{90} = \frac{16}{36}$