

# Brüche kürzen und erweitern (knifflig)

Variante 7

Klasse: \_\_\_\_\_ Datum: \_\_\_\_\_

Blatt 10

Name: \_\_\_\_\_

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

① a)  $\frac{33}{51} = \frac{\quad}{34}$       b)  $\frac{54}{72} = \frac{15}{\quad}$       c)  $\frac{20}{22} = \frac{\quad}{55}$       d)  $\frac{25}{60} = \frac{30}{\quad}$

e)  $\frac{28}{42} = \frac{\quad}{9}$       f)  $\frac{55}{75} = \frac{33}{\quad}$       g)  $\frac{5}{45} = \frac{\quad}{63}$       h)  $\frac{44}{48} = \frac{33}{\quad}$

② a)  $\frac{44}{88} = \frac{\quad}{6}$       b)  $\frac{28}{40} = \frac{42}{\quad}$       c)  $\frac{9}{60} = \frac{\quad}{80}$       d)  $\frac{84}{90} = \frac{70}{\quad}$

e)  $\frac{51}{68} = \frac{\quad}{16}$       f)  $\frac{5}{20} = \frac{7}{\quad}$       g)  $\frac{66}{78} = \frac{\quad}{65}$       h)  $\frac{57}{76} = \frac{6}{\quad}$

③ a)  $\frac{14}{49} = \frac{\quad}{42}$       b)  $\frac{18}{90} = \frac{4}{\quad}$       c)  $\frac{15}{35} = \frac{\quad}{28}$       d)  $\frac{56}{96} = \frac{49}{\quad}$

e)  $\frac{6}{27} = \frac{\quad}{36}$       f)  $\frac{26}{30} = \frac{65}{\quad}$       g)  $\frac{51}{69} = \frac{\quad}{92}$       h)  $\frac{21}{36} = \frac{28}{\quad}$

④ a)  $\frac{78}{96} = \frac{\quad}{80}$       b)  $\frac{22}{34} = \frac{33}{\quad}$       c)  $\frac{33}{36} = \frac{\quad}{48}$       d)  $\frac{76}{84} = \frac{57}{\quad}$

e)  $\frac{57}{66} = \frac{\quad}{44}$       f)  $\frac{24}{80} = \frac{15}{\quad}$       g)  $\frac{36}{63} = \frac{\quad}{14}$       h)  $\frac{50}{85} = \frac{20}{\quad}$

⑤ a)  $\frac{39}{51} = \frac{\quad}{85}$       b)  $\frac{28}{58} = \frac{42}{\quad}$       c)  $\frac{24}{75} = \frac{\quad}{50}$       d)  $\frac{10}{75} = \frac{8}{\quad}$

e)  $\frac{77}{91} = \frac{\quad}{65}$       f)  $\frac{4}{20} = \frac{7}{\quad}$       g)  $\frac{18}{22} = \frac{\quad}{33}$       h)  $\frac{20}{66} = \frac{30}{\quad}$

Quelle: [www.matheaufgaben.net/arbeitsblaetter/brueche-dezimalzahlen/bruch-kuerzen-erweitern-knifflig/](http://www.matheaufgaben.net/arbeitsblaetter/brueche-dezimalzahlen/bruch-kuerzen-erweitern-knifflig/)

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

① a)  $\frac{33}{51} = \frac{22}{34}$       b)  $\frac{54}{72} = \frac{15}{20}$       c)  $\frac{20}{22} = \frac{50}{55}$       d)  $\frac{25}{60} = \frac{30}{72}$

e)  $\frac{28}{42} = \frac{6}{9}$       f)  $\frac{55}{75} = \frac{33}{45}$       g)  $\frac{5}{45} = \frac{7}{63}$       h)  $\frac{44}{48} = \frac{33}{36}$

② a)  $\frac{44}{88} = \frac{3}{6}$       b)  $\frac{28}{40} = \frac{42}{60}$       c)  $\frac{9}{60} = \frac{12}{80}$       d)  $\frac{84}{90} = \frac{70}{75}$

e)  $\frac{51}{68} = \frac{12}{16}$       f)  $\frac{5}{20} = \frac{7}{28}$       g)  $\frac{66}{78} = \frac{55}{65}$       h)  $\frac{57}{76} = \frac{6}{8}$

③ a)  $\frac{14}{49} = \frac{12}{42}$       b)  $\frac{18}{90} = \frac{4}{20}$       c)  $\frac{15}{35} = \frac{12}{28}$       d)  $\frac{56}{96} = \frac{49}{84}$

e)  $\frac{6}{27} = \frac{8}{36}$       f)  $\frac{26}{30} = \frac{65}{75}$       g)  $\frac{51}{69} = \frac{68}{92}$       h)  $\frac{21}{36} = \frac{28}{48}$

④ a)  $\frac{78}{96} = \frac{65}{80}$       b)  $\frac{22}{34} = \frac{33}{51}$       c)  $\frac{33}{36} = \frac{44}{48}$       d)  $\frac{76}{84} = \frac{57}{63}$

e)  $\frac{57}{66} = \frac{38}{44}$       f)  $\frac{24}{80} = \frac{15}{50}$       g)  $\frac{36}{63} = \frac{8}{14}$       h)  $\frac{50}{85} = \frac{20}{34}$

⑤ a)  $\frac{39}{51} = \frac{65}{85}$       b)  $\frac{28}{58} = \frac{42}{87}$       c)  $\frac{24}{75} = \frac{16}{50}$       d)  $\frac{10}{75} = \frac{8}{60}$

e)  $\frac{77}{91} = \frac{55}{65}$       f)  $\frac{4}{20} = \frac{7}{35}$       g)  $\frac{18}{22} = \frac{27}{33}$       h)  $\frac{20}{66} = \frac{30}{99}$