

# Brüche kürzen und erweitern (knifflig)

Variante 7

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

Blatt 13

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

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

① a)  $\frac{9}{54} = \frac{\quad}{42}$       b)  $\frac{24}{50} = \frac{36}{\quad}$       c)  $\frac{70}{80} = \frac{\quad}{24}$       d)  $\frac{6}{66} = \frac{7}{\quad}$

e)  $\frac{35}{45} = \frac{\quad}{36}$       f)  $\frac{30}{70} = \frac{21}{\quad}$       g)  $\frac{20}{28} = \frac{\quad}{35}$       h)  $\frac{55}{95} = \frac{44}{\quad}$

② a)  $\frac{90}{99} = \frac{\quad}{66}$       b)  $\frac{16}{88} = \frac{12}{\quad}$       c)  $\frac{29}{87} = \frac{\quad}{18}$       d)  $\frac{54}{87} = \frac{36}{\quad}$

e)  $\frac{24}{45} = \frac{\quad}{30}$       f)  $\frac{9}{72} = \frac{6}{\quad}$       g)  $\frac{51}{75} = \frac{\quad}{50}$       h)  $\frac{24}{54} = \frac{28}{\quad}$

③ a)  $\frac{75}{84} = \frac{\quad}{56}$       b)  $\frac{12}{36} = \frac{7}{\quad}$       c)  $\frac{44}{55} = \frac{\quad}{25}$       d)  $\frac{9}{24} = \frac{6}{\quad}$

e)  $\frac{8}{96} = \frac{\quad}{36}$       f)  $\frac{60}{84} = \frac{25}{\quad}$       g)  $\frac{22}{26} = \frac{\quad}{39}$       h)  $\frac{69}{78} = \frac{46}{\quad}$

④ a)  $\frac{36}{90} = \frac{\quad}{35}$       b)  $\frac{60}{63} = \frac{80}{\quad}$       c)  $\frac{34}{42} = \frac{\quad}{63}$       d)  $\frac{78}{93} = \frac{52}{\quad}$

e)  $\frac{13}{39} = \frac{\quad}{21}$       f)  $\frac{15}{60} = \frac{6}{\quad}$       g)  $\frac{16}{30} = \frac{\quad}{45}$       h)  $\frac{15}{51} = \frac{25}{\quad}$

⑤ a)  $\frac{40}{50} = \frac{\quad}{30}$       b)  $\frac{12}{15} = \frac{16}{\quad}$       c)  $\frac{42}{84} = \frac{\quad}{10}$       d)  $\frac{14}{56} = \frac{4}{\quad}$

e)  $\frac{50}{65} = \frac{\quad}{91}$       f)  $\frac{2}{24} = \frac{3}{\quad}$       g)  $\frac{60}{68} = \frac{\quad}{85}$       h)  $\frac{40}{62} = \frac{60}{\quad}$

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)  $\frac{9}{54} = \frac{7}{42}$       b)  $\frac{24}{50} = \frac{36}{75}$       c)  $\frac{70}{80} = \frac{21}{24}$       d)  $\frac{6}{66} = \frac{7}{77}$
- e)  $\frac{35}{45} = \frac{28}{36}$       f)  $\frac{30}{70} = \frac{21}{49}$       g)  $\frac{20}{28} = \frac{25}{35}$       h)  $\frac{55}{95} = \frac{44}{76}$
- ② a)  $\frac{90}{99} = \frac{60}{66}$       b)  $\frac{16}{88} = \frac{12}{66}$       c)  $\frac{29}{87} = \frac{6}{18}$       d)  $\frac{54}{87} = \frac{36}{58}$
- e)  $\frac{24}{45} = \frac{16}{30}$       f)  $\frac{9}{72} = \frac{6}{48}$       g)  $\frac{51}{75} = \frac{34}{50}$       h)  $\frac{24}{54} = \frac{28}{63}$
- ③ a)  $\frac{75}{84} = \frac{50}{56}$       b)  $\frac{12}{36} = \frac{7}{21}$       c)  $\frac{44}{55} = \frac{20}{25}$       d)  $\frac{9}{24} = \frac{6}{16}$
- e)  $\frac{8}{96} = \frac{3}{36}$       f)  $\frac{60}{84} = \frac{25}{35}$       g)  $\frac{22}{26} = \frac{33}{39}$       h)  $\frac{69}{78} = \frac{46}{52}$
- ④ a)  $\frac{36}{90} = \frac{14}{35}$       b)  $\frac{60}{63} = \frac{80}{84}$       c)  $\frac{34}{42} = \frac{51}{63}$       d)  $\frac{78}{93} = \frac{52}{62}$
- e)  $\frac{13}{39} = \frac{7}{21}$       f)  $\frac{15}{60} = \frac{6}{24}$       g)  $\frac{16}{30} = \frac{24}{45}$       h)  $\frac{15}{51} = \frac{25}{85}$
- ⑤ a)  $\frac{40}{50} = \frac{24}{30}$       b)  $\frac{12}{15} = \frac{16}{20}$       c)  $\frac{42}{84} = \frac{5}{10}$       d)  $\frac{14}{56} = \frac{4}{16}$
- e)  $\frac{50}{65} = \frac{70}{91}$       f)  $\frac{2}{24} = \frac{3}{36}$       g)  $\frac{60}{68} = \frac{75}{85}$       h)  $\frac{40}{62} = \frac{60}{93}$