

# Brüche kürzen und erweitern (knifflig)

Variante 7

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

Blatt 4

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

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

① a)  $\frac{8}{20} = \frac{\quad}{25}$       b)  $\frac{51}{57} = \frac{85}{\quad}$       c)  $\frac{8}{68} = \frac{\quad}{51}$       d)  $\frac{30}{51} = \frac{20}{\quad}$

e)  $\frac{12}{72} = \frac{\quad}{30}$       f)  $\frac{45}{75} = \frac{12}{\quad}$       g)  $\frac{36}{81} = \frac{\quad}{36}$       h)  $\frac{3}{78} = \frac{2}{\quad}$

② a)  $\frac{8}{32} = \frac{\quad}{20}$       b)  $\frac{20}{65} = \frac{16}{\quad}$       c)  $\frac{27}{42} = \frac{\quad}{70}$       d)  $\frac{3}{36} = \frac{7}{\quad}$

e)  $\frac{44}{66} = \frac{\quad}{18}$       f)  $\frac{44}{56} = \frac{66}{\quad}$       g)  $\frac{35}{40} = \frac{\quad}{56}$       h)  $\frac{4}{38} = \frac{6}{\quad}$

③ a)  $\frac{32}{56} = \frac{\quad}{21}$       b)  $\frac{12}{28} = \frac{18}{\quad}$       c)  $\frac{12}{44} = \frac{\quad}{77}$       d)  $\frac{42}{56} = \frac{18}{\quad}$

e)  $\frac{9}{18} = \frac{\quad}{10}$       f)  $\frac{77}{98} = \frac{22}{\quad}$       g)  $\frac{19}{57} = \frac{\quad}{21}$       h)  $\frac{17}{34} = \frac{2}{\quad}$

④ a)  $\frac{16}{22} = \frac{\quad}{33}$       b)  $\frac{10}{32} = \frac{25}{\quad}$       c)  $\frac{56}{91} = \frac{\quad}{26}$       d)  $\frac{20}{48} = \frac{30}{\quad}$

e)  $\frac{60}{95} = \frac{\quad}{76}$       f)  $\frac{10}{36} = \frac{25}{\quad}$       g)  $\frac{35}{98} = \frac{\quad}{42}$       h)  $\frac{15}{20} = \frac{9}{\quad}$

⑤ a)  $\frac{24}{28} = \frac{\quad}{42}$       b)  $\frac{56}{98} = \frac{20}{\quad}$       c)  $\frac{30}{65} = \frac{\quad}{26}$       d)  $\frac{6}{44} = \frac{9}{\quad}$

e)  $\frac{21}{70} = \frac{\quad}{40}$       f)  $\frac{54}{93} = \frac{36}{\quad}$       g)  $\frac{45}{51} = \frac{\quad}{34}$       h)  $\frac{2}{10} = \frac{5}{\quad}$

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)  $\frac{8}{20} = \frac{10}{25}$       b)  $\frac{51}{57} = \frac{85}{95}$       c)  $\frac{8}{68} = \frac{6}{51}$       d)  $\frac{30}{51} = \frac{20}{34}$

e)  $\frac{12}{72} = \frac{5}{30}$       f)  $\frac{45}{75} = \frac{12}{20}$       g)  $\frac{36}{81} = \frac{16}{36}$       h)  $\frac{3}{78} = \frac{2}{52}$

② a)  $\frac{8}{32} = \frac{5}{20}$       b)  $\frac{20}{65} = \frac{16}{52}$       c)  $\frac{27}{42} = \frac{45}{70}$       d)  $\frac{3}{36} = \frac{7}{84}$

e)  $\frac{44}{66} = \frac{12}{18}$       f)  $\frac{44}{56} = \frac{66}{84}$       g)  $\frac{35}{40} = \frac{49}{56}$       h)  $\frac{4}{38} = \frac{6}{57}$

③ a)  $\frac{32}{56} = \frac{12}{21}$       b)  $\frac{12}{28} = \frac{18}{42}$       c)  $\frac{12}{44} = \frac{21}{77}$       d)  $\frac{42}{56} = \frac{18}{24}$

e)  $\frac{9}{18} = \frac{5}{10}$       f)  $\frac{77}{98} = \frac{22}{28}$       g)  $\frac{19}{57} = \frac{7}{21}$       h)  $\frac{17}{34} = \frac{2}{4}$

④ a)  $\frac{16}{22} = \frac{24}{33}$       b)  $\frac{10}{32} = \frac{25}{80}$       c)  $\frac{56}{91} = \frac{16}{26}$       d)  $\frac{20}{48} = \frac{30}{72}$

e)  $\frac{60}{95} = \frac{48}{76}$       f)  $\frac{10}{36} = \frac{25}{90}$       g)  $\frac{35}{98} = \frac{15}{42}$       h)  $\frac{15}{20} = \frac{9}{12}$

⑤ a)  $\frac{24}{28} = \frac{36}{42}$       b)  $\frac{56}{98} = \frac{20}{35}$       c)  $\frac{30}{65} = \frac{12}{26}$       d)  $\frac{6}{44} = \frac{9}{66}$

e)  $\frac{21}{70} = \frac{12}{40}$       f)  $\frac{54}{93} = \frac{36}{62}$       g)  $\frac{45}{51} = \frac{30}{34}$       h)  $\frac{2}{10} = \frac{5}{25}$