

Brüche kürzen und erweitern (knifflig)

Variante 7

Klasse: _____ Datum: _____

Blatt 2

Name: _____

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

① a) $\frac{40}{76} = \frac{\quad}{95}$ b) $\frac{49}{77} = \frac{14}{\quad}$ c) $\frac{18}{78} = \frac{\quad}{52}$ d) $\frac{10}{50} = \frac{7}{\quad}$

e) $\frac{69}{92} = \frac{\quad}{16}$ f) $\frac{60}{70} = \frac{18}{\quad}$ g) $\frac{18}{32} = \frac{\quad}{80}$ h) $\frac{3}{33} = \frac{5}{\quad}$

② a) $\frac{15}{72} = \frac{\quad}{48}$ b) $\frac{63}{70} = \frac{36}{\quad}$ c) $\frac{12}{57} = \frac{\quad}{38}$ d) $\frac{3}{72} = \frac{4}{\quad}$

e) $\frac{36}{54} = \frac{\quad}{15}$ f) $\frac{12}{78} = \frac{10}{\quad}$ g) $\frac{10}{52} = \frac{\quad}{78}$ h) $\frac{4}{12} = \frac{3}{\quad}$

③ a) $\frac{60}{75} = \frac{\quad}{35}$ b) $\frac{60}{65} = \frac{72}{\quad}$ c) $\frac{3}{57} = \frac{\quad}{38}$ d) $\frac{56}{66} = \frac{84}{\quad}$

e) $\frac{23}{46} = \frac{\quad}{8}$ f) $\frac{34}{46} = \frac{51}{\quad}$ g) $\frac{16}{44} = \frac{\quad}{77}$ h) $\frac{12}{33} = \frac{8}{\quad}$

④ a) $\frac{5}{25} = \frac{\quad}{30}$ b) $\frac{28}{50} = \frac{42}{\quad}$ c) $\frac{40}{58} = \frac{\quad}{87}$ d) $\frac{40}{56} = \frac{15}{\quad}$

e) $\frac{28}{84} = \frac{\quad}{18}$ f) $\frac{36}{57} = \frac{60}{\quad}$ g) $\frac{39}{54} = \frac{\quad}{90}$ h) $\frac{39}{66} = \frac{52}{\quad}$

⑤ a) $\frac{20}{50} = \frac{\quad}{15}$ b) $\frac{8}{38} = \frac{12}{\quad}$ c) $\frac{28}{32} = \frac{\quad}{24}$ d) $\frac{35}{63} = \frac{20}{\quad}$

e) $\frac{6}{12} = \frac{\quad}{10}$ f) $\frac{2}{18} = \frac{7}{\quad}$ g) $\frac{78}{91} = \frac{\quad}{28}$ h) $\frac{50}{55} = \frac{70}{\quad}$

Quelle: www.matheaufgaben.net/arbeitsblaetter/brueche-dezimalzahlen/bruch-kuerzen-erweitern-knifflig/

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

- ① a) $\frac{40}{76} = \frac{50}{95}$ b) $\frac{49}{77} = \frac{14}{22}$ c) $\frac{18}{78} = \frac{12}{52}$ d) $\frac{10}{50} = \frac{7}{35}$
- e) $\frac{69}{92} = \frac{12}{16}$ f) $\frac{60}{70} = \frac{18}{21}$ g) $\frac{18}{32} = \frac{45}{80}$ h) $\frac{3}{33} = \frac{5}{55}$
- ② a) $\frac{15}{72} = \frac{10}{48}$ b) $\frac{63}{70} = \frac{36}{40}$ c) $\frac{12}{57} = \frac{8}{38}$ d) $\frac{3}{72} = \frac{4}{96}$
- e) $\frac{36}{54} = \frac{10}{15}$ f) $\frac{12}{78} = \frac{10}{65}$ g) $\frac{10}{52} = \frac{15}{78}$ h) $\frac{4}{12} = \frac{3}{9}$
- ③ a) $\frac{60}{75} = \frac{28}{35}$ b) $\frac{60}{65} = \frac{72}{78}$ c) $\frac{3}{57} = \frac{2}{38}$ d) $\frac{56}{66} = \frac{84}{99}$
- e) $\frac{23}{46} = \frac{4}{8}$ f) $\frac{34}{46} = \frac{51}{69}$ g) $\frac{16}{44} = \frac{28}{77}$ h) $\frac{12}{33} = \frac{8}{22}$
- ④ a) $\frac{5}{25} = \frac{6}{30}$ b) $\frac{28}{50} = \frac{42}{75}$ c) $\frac{40}{58} = \frac{60}{87}$ d) $\frac{40}{56} = \frac{15}{21}$
- e) $\frac{28}{84} = \frac{6}{18}$ f) $\frac{36}{57} = \frac{60}{95}$ g) $\frac{39}{54} = \frac{65}{90}$ h) $\frac{39}{66} = \frac{52}{88}$
- ⑤ a) $\frac{20}{50} = \frac{6}{15}$ b) $\frac{8}{38} = \frac{12}{57}$ c) $\frac{28}{32} = \frac{21}{24}$ d) $\frac{35}{63} = \frac{20}{36}$
- e) $\frac{6}{12} = \frac{5}{10}$ f) $\frac{2}{18} = \frac{7}{63}$ g) $\frac{78}{91} = \frac{24}{28}$ h) $\frac{50}{55} = \frac{70}{77}$