

Brüche kürzen und erweitern (knifflig)

Variante 7

Klasse: _____ Datum: _____

Blatt 7

Name: _____

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

① a) $\frac{40}{70} = \frac{\quad}{28}$ b) $\frac{52}{76} = \frac{65}{\quad}$ c) $\frac{49}{98} = \frac{\quad}{4}$ d) $\frac{54}{99} = \frac{12}{\quad}$

e) $\frac{21}{63} = \frac{\quad}{15}$ f) $\frac{16}{34} = \frac{24}{\quad}$ g) $\frac{28}{48} = \frac{\quad}{36}$ h) $\frac{28}{77} = \frac{24}{\quad}$

② a) $\frac{5}{30} = \frac{\quad}{36}$ b) $\frac{42}{70} = \frac{12}{\quad}$ c) $\frac{40}{72} = \frac{\quad}{27}$ d) $\frac{48}{64} = \frac{15}{\quad}$

e) $\frac{45}{63} = \frac{\quad}{14}$ f) $\frac{25}{75} = \frac{4}{\quad}$ g) $\frac{39}{42} = \frac{\quad}{56}$ h) $\frac{24}{32} = \frac{9}{\quad}$

③ a) $\frac{24}{51} = \frac{\quad}{85}$ b) $\frac{42}{69} = \frac{28}{\quad}$ c) $\frac{4}{22} = \frac{\quad}{33}$ d) $\frac{63}{99} = \frac{42}{\quad}$

e) $\frac{30}{66} = \frac{\quad}{55}$ f) $\frac{22}{66} = \frac{6}{\quad}$ g) $\frac{18}{21} = \frac{\quad}{14}$ h) $\frac{26}{66} = \frac{39}{\quad}$

④ a) $\frac{21}{51} = \frac{\quad}{68}$ b) $\frac{32}{40} = \frac{12}{\quad}$ c) $\frac{5}{10} = \frac{\quad}{14}$ d) $\frac{22}{24} = \frac{77}{\quad}$

e) $\frac{12}{30} = \frac{\quad}{20}$ f) $\frac{14}{98} = \frac{4}{\quad}$ g) $\frac{16}{72} = \frac{\quad}{45}$ h) $\frac{7}{42} = \frac{6}{\quad}$

⑤ a) $\frac{27}{48} = \frac{\quad}{64}$ b) $\frac{36}{75} = \frac{24}{\quad}$ c) $\frac{6}{24} = \frac{\quad}{28}$ d) $\frac{72}{88} = \frac{45}{\quad}$

e) $\frac{39}{78} = \frac{\quad}{12}$ f) $\frac{14}{35} = \frac{12}{\quad}$ g) $\frac{10}{90} = \frac{\quad}{36}$ h) $\frac{30}{90} = \frac{7}{\quad}$

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

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

- ① a) $\frac{40}{70} = \frac{16}{28}$ b) $\frac{52}{76} = \frac{65}{95}$ c) $\frac{49}{98} = \frac{2}{4}$ d) $\frac{54}{99} = \frac{12}{22}$
- e) $\frac{21}{63} = \frac{5}{15}$ f) $\frac{16}{34} = \frac{24}{51}$ g) $\frac{28}{48} = \frac{21}{36}$ h) $\frac{28}{77} = \frac{24}{66}$
- ② a) $\frac{5}{30} = \frac{6}{36}$ b) $\frac{42}{70} = \frac{12}{20}$ c) $\frac{40}{72} = \frac{15}{27}$ d) $\frac{48}{64} = \frac{15}{20}$
- e) $\frac{45}{63} = \frac{10}{14}$ f) $\frac{25}{75} = \frac{4}{12}$ g) $\frac{39}{42} = \frac{52}{56}$ h) $\frac{24}{32} = \frac{9}{12}$
- ③ a) $\frac{24}{51} = \frac{40}{85}$ b) $\frac{42}{69} = \frac{28}{46}$ c) $\frac{4}{22} = \frac{6}{33}$ d) $\frac{63}{99} = \frac{42}{66}$
- e) $\frac{30}{66} = \frac{25}{55}$ f) $\frac{22}{66} = \frac{6}{18}$ g) $\frac{18}{21} = \frac{12}{14}$ h) $\frac{26}{66} = \frac{39}{99}$
- ④ a) $\frac{21}{51} = \frac{28}{68}$ b) $\frac{32}{40} = \frac{12}{15}$ c) $\frac{5}{10} = \frac{7}{14}$ d) $\frac{22}{24} = \frac{77}{84}$
- e) $\frac{12}{30} = \frac{8}{20}$ f) $\frac{14}{98} = \frac{4}{28}$ g) $\frac{16}{72} = \frac{10}{45}$ h) $\frac{7}{42} = \frac{6}{36}$
- ⑤ a) $\frac{27}{48} = \frac{36}{64}$ b) $\frac{36}{75} = \frac{24}{50}$ c) $\frac{6}{24} = \frac{7}{28}$ d) $\frac{72}{88} = \frac{45}{55}$
- e) $\frac{39}{78} = \frac{6}{12}$ f) $\frac{14}{35} = \frac{12}{30}$ g) $\frac{10}{90} = \frac{4}{36}$ h) $\frac{30}{90} = \frac{7}{21}$