**Brüche kürzen und erweitern** | Variante **6** | Blatt **16** | Klasse: ____ | Datum: _____ | Name: _____

**Ergänze die fehlenden Zähler und Nenner:**

**1**

a) $\frac{10}{46} = \frac{\quad}{23}$ b) $\frac{31}{38} = \frac{62}{\quad}$ c) $\frac{21}{78} = \frac{\quad}{26}$ d) $\frac{7}{32} = \frac{21}{\quad}$

e) $\frac{15}{90} = \frac{\quad}{6}$ f) $\frac{63}{93} = \frac{21}{\quad}$ g) $\frac{20}{56} = \frac{\quad}{14}$ h) $\frac{40}{60} = \frac{2}{\quad}$

**2**

a) $\frac{6}{84} = \frac{\quad}{14}$ b) $\frac{12}{18} = \frac{2}{\quad}$ c) $\frac{55}{88} = \frac{\quad}{8}$ d) $\frac{52}{92} = \frac{13}{\quad}$

e) $\frac{26}{40} = \frac{\quad}{20}$ f) $\frac{2}{21} = \frac{8}{\quad}$ g) $\frac{26}{36} = \frac{\quad}{18}$ h) $\frac{25}{65} = \frac{5}{\quad}$

**3**

a) $\frac{20}{90} = \frac{\quad}{9}$ b) $\frac{12}{63} = \frac{4}{\quad}$ c) $\frac{20}{35} = \frac{\quad}{7}$ d) $\frac{32}{84} = \frac{8}{\quad}$

e) $\frac{46}{48} = \frac{\quad}{24}$ f) $\frac{44}{72} = \frac{11}{\quad}$ g) $\frac{66}{86} = \frac{\quad}{43}$ h) $\frac{52}{84} = \frac{13}{\quad}$

**4**

a) $\frac{8}{74} = \frac{\quad}{37}$ b) $\frac{21}{69} = \frac{7}{\quad}$ c) $\frac{5}{6} = \frac{\quad}{42}$ d) $\frac{64}{98} = \frac{32}{\quad}$

e) $\frac{42}{43} = \frac{\quad}{86}$ f) $\frac{34}{54} = \frac{17}{\quad}$ g) $\frac{10}{60} = \frac{\quad}{6}$ h) $\frac{30}{74} = \frac{15}{\quad}$

**5**

a) $\frac{32}{36} = \frac{\quad}{9}$ b) $\frac{52}{60} = \frac{13}{\quad}$ c) $\frac{17}{27} = \frac{\quad}{81}$ d) $\frac{46}{76} = \frac{23}{\quad}$

e) $\frac{63}{98} = \frac{\quad}{14}$ f) $\frac{75}{81} = \frac{25}{\quad}$ g) $\frac{40}{65} = \frac{\quad}{13}$ h) $\frac{66}{88} = \frac{3}{\quad}$

**Brüche kürzen und erweitern**

Variante **6**

Blatt **16**

**... Lösungen ...**

**Ergänze die fehlenden Zähler und Nenner:**

**1**

a) $\frac{10}{46} = \frac{5}{23}$ b) $\frac{31}{38} = \frac{62}{76}$ c) $\frac{21}{78} = \frac{7}{26}$ d) $\frac{7}{32} = \frac{21}{96}$

e) $\frac{15}{90} = \frac{1}{6}$ f) $\frac{63}{93} = \frac{21}{31}$ g) $\frac{20}{56} = \frac{5}{14}$ h) $\frac{40}{60} = \frac{2}{3}$

**2**

a) $\frac{6}{84} = \frac{1}{14}$ b) $\frac{12}{18} = \frac{2}{3}$ c) $\frac{55}{88} = \frac{5}{8}$ d) $\frac{52}{92} = \frac{13}{23}$

e) $\frac{26}{40} = \frac{13}{20}$ f) $\frac{2}{21} = \frac{8}{84}$ g) $\frac{26}{36} = \frac{13}{18}$ h) $\frac{25}{65} = \frac{5}{13}$

**3**

a) $\frac{20}{90} = \frac{2}{9}$ b) $\frac{12}{63} = \frac{4}{21}$ c) $\frac{20}{35} = \frac{4}{7}$ d) $\frac{32}{84} = \frac{8}{21}$

e) $\frac{46}{48} = \frac{23}{24}$ f) $\frac{44}{72} = \frac{11}{18}$ g) $\frac{66}{86} = \frac{33}{43}$ h) $\frac{52}{84} = \frac{13}{21}$

**4**

a) $\frac{8}{74} = \frac{4}{37}$ b) $\frac{21}{69} = \frac{7}{23}$ c) $\frac{5}{6} = \frac{35}{42}$ d) $\frac{64}{98} = \frac{32}{49}$

e) $\frac{42}{43} = \frac{84}{86}$ f) $\frac{34}{54} = \frac{17}{27}$ g) $\frac{10}{60} = \frac{1}{6}$ h) $\frac{30}{74} = \frac{15}{37}$

**5**

a) $\frac{32}{36} = \frac{8}{9}$ b) $\frac{52}{60} = \frac{13}{15}$ c) $\frac{17}{27} = \frac{51}{81}$ d) $\frac{46}{76} = \frac{23}{38}$

e) $\frac{63}{98} = \frac{9}{14}$ f) $\frac{75}{81} = \frac{25}{27}$ g) $\frac{40}{65} = \frac{8}{13}$ h) $\frac{66}{88} = \frac{3}{4}$