Wie kannst du Brüche
erweitern und kürzen?

1. Ergänze diese Brüche zu gleichwertigen Brüchen.

$\frac{2}{5} = \frac{10}{25} = \frac{6}{15} = \frac{12}{\_\_} = \frac{\_\_}{20} = \frac{\_\_}{40} = \frac{4}{\_\_} = \frac{14}{\_\_} = \frac{\_\_}{45}$

$\frac{3}{8} = \frac{\_\_}{40} = \frac{9}{\_\_} = \frac{\_\_}{48} = \frac{12}{\_\_} = \frac{\_\_}{64} = \frac{\_\_}{16} = \frac{21}{\_\_} = \frac{27}{\_\_}$

$\frac{5}{6} = \frac{25}{\_\_} = \frac{15}{\_\_} = \frac{\_\_}{36} = \frac{\_\_}{24} = \frac{40}{\_\_} = \frac{\_\_}{12} = \frac{35}{\_\_} = \frac{45}{\_\_}$

$\frac{4}{7} = \frac{20}{\_\_} = \frac{12}{\_\_} = \frac{\_\_}{42} = \frac{16}{\_\_} = \frac{32}{\_\_} = \frac{\_\_}{14} = \frac{\_\_}{49} = \frac{36}{\_\_}$

$\frac{3}{4} = \frac{\_\_}{20} = \frac{9}{\_\_} = \frac{18}{\_\_} = \frac{\_\_}{16} = \frac{\_\_}{32} = \frac{6}{\_\_} = \frac{21}{\_\_} = \frac{\_\_}{36}$

2. Kürze diese Brüche so weit wie möglich:

$\frac{96}{168} = \frac{48}{84} = \frac{\_\_}{\_\_} = \frac{\_\_}{\_\_} = \frac{\_\_}{\_\_} = \frac{\_\_}{\_\_} = \frac{\_\_}{\_\_}$

$\frac{72}{96} = \frac{\_\_}{\_\_} = \frac{\_\_}{\_\_} = \frac{\_\_}{\_\_} = \frac{\_\_}{\_\_} = \frac{\_\_}{\_\_} = \frac{\_\_}{\_\_}$

3. Kürze diese Brüche vollständig. Notiere Zwischenschritte auf einem Notizzettel.

$\frac{12}{60} = \frac{1}{5}$ $\quad \frac{8}{70} = \frac{\_\_}{\_\_}$ $\quad \frac{8}{20} = \frac{\_\_}{\_\_}$

$\frac{4}{144} = \frac{\_\_}{\_\_}$ $\quad \frac{7}{42} = \frac{\_\_}{\_\_}$ $\quad \frac{3}{72} = \frac{\_\_}{\_\_}$

$\frac{25}{30} = \frac{\_\_}{\_\_}$ $\quad \frac{35}{252} = \frac{\_\_}{\_\_}$ $\quad \frac{20}{216} = \frac{\_\_}{\_\_}$

Wie kannst du Brüche Lösungen

erweitern und kürzen?

1. Ergänze diese Brüche zu gleichwertigen Brüchen.

$\frac{2}{5} = \frac{10}{25} = \frac{6}{15} = \frac{12}{30} = \frac{8}{20} = \frac{16}{40} = \frac{4}{10} = \frac{14}{35} = \frac{18}{45}$

$\frac{3}{8} = \frac{15}{40} = \frac{9}{24} = \frac{18}{48} = \frac{12}{32} = \frac{24}{64} = \frac{6}{16} = \frac{21}{56} = \frac{27}{72}$

$\frac{5}{6} = \frac{25}{30} = \frac{15}{18} = \frac{30}{36} = \frac{20}{24} = \frac{40}{48} = \frac{10}{12} = \frac{35}{42} = \frac{45}{54}$

$\frac{4}{7} = \frac{20}{35} = \frac{12}{21} = \frac{24}{42} = \frac{16}{28} = \frac{32}{56} = \frac{8}{14} = \frac{28}{49} = \frac{36}{63}$

$\frac{3}{4} = \frac{15}{20} = \frac{9}{12} = \frac{18}{24} = \frac{12}{16} = \frac{24}{32} = \frac{6}{8} = \frac{21}{28} = \frac{27}{36}$

2. Kürze diese Brüche so weit wie möglich: Lösungsbeispiele

$\frac{96}{168} = \frac{48}{84} = \frac{24}{42} = \frac{12}{21} = \frac{4}{7}$

$\frac{72}{96} = \frac{36}{48} = \frac{18}{24} = \frac{9}{12} = \frac{3}{4}$

3. Kürze diese Brüche vollständig. Notiere Zwischenschritte auf einem Notizzettel.

$\frac{12}{60} = \frac{1}{5}$ $\quad \frac{8}{70} = \frac{4}{35}$ $\quad \frac{8}{20} = \frac{2}{5}$

$\frac{4}{144} = \frac{1}{36}$ $\quad \frac{7}{42} = \frac{1}{6}$ $\quad \frac{3}{72} = \frac{1}{24}$

$\frac{25}{30} = \frac{5}{6}$ $\quad \frac{35}{252} = \frac{5}{36}$ $\quad \frac{20}{216} = \frac{5}{54}$