

Buch S. 65/13

Verbrauchter Vorrat: $\frac{1 \cdot 3}{2 \cdot 3} + \frac{1 \cdot 2}{3 \cdot 2} =$

HN: $2 \rightarrow 2, 4, \textcircled{6}, 8 \rightarrow \cdot 3$

$3 \rightarrow 3, \textcircled{6} \rightarrow \cdot 2$

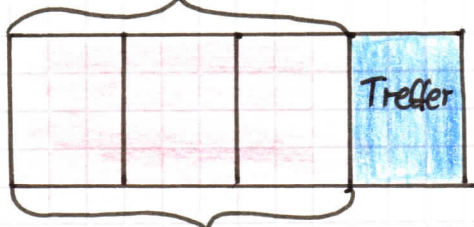
$$\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$$

Übriger Vorrat: $1 - \frac{5}{6} =$

$$\frac{6}{6} - \frac{5}{6} = \underline{\underline{\frac{1}{6}}}$$

Buch S. 65/14

1 { Treffer $\frac{1}{4}$ $(1 - \frac{1}{4} = \frac{4}{4} - \frac{1}{4} = \frac{3}{4})$
Nieten 18 $\hat{=} \frac{3}{4}$



$18 \text{ Stück} \Rightarrow 18 : 3 = 6 \text{ Stück } (\frac{1}{4})$

Treffer $\hat{=} 6$ Stück

Buch S. 65/15

Staffellauf $\frac{1}{3} \hat{=} \underline{\underline{10}}$ Schüler

Fußball $\frac{1}{2} \hat{=} \underline{\underline{15}}$ Schüler

Weitsprung $\frac{1}{6} \hat{=} 5$ Schüler

$1 - \frac{1}{3} - \frac{1}{2} =$ (siehe Nr. 13)

$\frac{6}{6} - \frac{2}{6} - \frac{3}{6} = \underline{\underline{\frac{1}{6}}}$

$\frac{1}{6} \hat{=} 5$ Schüler

$\frac{1}{3} = \frac{2}{6} = 5 \cdot 2 = \underline{\underline{10}}$ Schüler

$\frac{1}{2} = \frac{3}{6} = 5 \cdot 3 = \underline{\underline{15}}$ Schüler

Buch S. 66 / 4

a) $3 \cdot \frac{2}{7} =$

$$\frac{3}{1} \cdot \frac{2}{7} =$$

$$\frac{3 \cdot 2}{1 \cdot 7} =$$

$$\underline{\underline{\frac{6}{7}}}$$

b) $3 \cdot \frac{1}{4} =$

$$\frac{3}{1} \cdot \frac{1}{4} =$$

$$\frac{3 \cdot 1}{1 \cdot 4} =$$

$$\underline{\underline{\frac{3}{4}}}$$

c) $2 \cdot \frac{6}{8} =$

$$\frac{2}{1} \cdot \frac{6}{8} =$$

$$\frac{\cancel{2} \cdot 6}{1 \cdot \cancel{8}} =$$

$$\frac{\cancel{2} \cdot 3 \cdot 2}{4 \cdot \cancel{2}} = \frac{3}{2} = \underline{\underline{1 \frac{1}{2}}}$$

d) $6 \cdot \frac{4}{5} =$

$$\frac{6}{1} \cdot \frac{4}{5} =$$

$$\frac{24}{5} = \underline{\underline{4 \frac{4}{5}}}$$

e) $5 \cdot \frac{3}{10} =$

$$\frac{\cancel{5}}{1} \cdot \frac{3}{\cancel{10}} =$$

$$\frac{3}{2} = \underline{\underline{1 \frac{1}{2}}}$$

f) $7 \cdot \frac{2}{9} =$

$$\frac{7}{1} \cdot \frac{2}{9} =$$

$$\frac{14}{9} = \underline{\underline{1 \frac{5}{9}}}$$

g) $9 \cdot \frac{3}{11} =$

$$\frac{9}{1} \cdot \frac{3}{11} =$$

$$\frac{27}{11} = \underline{\underline{2 \frac{5}{11}}}$$

a) $4 \cdot \frac{3}{8} =$

$$\frac{4}{1} \cdot \frac{3}{8} =$$

$$\frac{\cancel{4} \cdot 3}{1 \cdot \cancel{8}_{4 \cdot 2}} =$$

$$\frac{3}{2} = \underline{\underline{1\frac{1}{2}}}$$

b) $3 \cdot \frac{9}{8} =$

$$\frac{3}{1} \cdot \frac{9}{8} =$$

$$\frac{3 \cdot 9}{1 \cdot 8} =$$

$$\frac{27}{8} = \underline{\underline{3\frac{3}{8}}}$$

c) $6 \cdot \frac{1}{3} =$

$$\frac{6}{1} \cdot \frac{1}{3} =$$

$$\frac{\cancel{6}_{2 \cdot 3} \cdot 1}{1 \cdot \cancel{3}} =$$

$$\frac{2}{1} = \underline{\underline{2}}$$

d) $12 \cdot \frac{2}{6} =$

$$\frac{12}{1} \cdot \frac{2}{6} =$$

$$\frac{\cancel{12}_{2 \cdot 6} \cdot 2}{1 \cdot \cancel{6}} =$$

$$\frac{4}{1} = \underline{\underline{4}}$$

e) $9 \cdot \frac{4}{15} =$

$$\frac{9}{1} \cdot \frac{4}{15} =$$

$$\frac{\cancel{9}_{3 \cdot 3} \cdot 4}{1 \cdot \cancel{15}_{3 \cdot 5}} =$$

$$\frac{12}{5} = \underline{\underline{2\frac{2}{5}}}$$

f) $36 \cdot \frac{8}{9} =$

$$\frac{36}{1} \cdot \frac{8}{9} =$$

$$\frac{\cancel{36}_{4 \cdot 9} \cdot 8}{1 \cdot \cancel{9}} =$$

$$\frac{4 \cdot 8}{1} = \frac{32}{1} = \underline{\underline{32}}$$

g) $9 \cdot \frac{5}{12} =$

$$\frac{9}{1} \cdot \frac{5}{12} =$$

$$\frac{\cancel{9}_{3 \cdot 3} \cdot 5}{1 \cdot \cancel{12}_{3 \cdot 4}} = \frac{3 \cdot 5}{4} = \frac{15}{4} = \underline{\underline{3\frac{3}{4}}}$$

h) $8 \cdot \frac{7}{12} =$

$$\frac{8}{1} \cdot \frac{7}{12} =$$

$$\frac{\cancel{8}_{4 \cdot 2} \cdot 7}{1 \cdot \cancel{12}_{4 \cdot 3}} = \frac{14}{3} = \underline{\underline{4\frac{2}{3}}}$$

Buch S. 67 / 10

$$a) \frac{3}{4} \cdot \frac{7}{8} = \frac{21}{32}$$

$$g) \frac{3}{7} \cdot \frac{2}{5} = \frac{6}{35}$$

$$b) \frac{7}{10} \cdot \frac{3}{8} = \frac{21}{80}$$

$$h) \frac{\overset{2 \cdot 2}{\cancel{4}}}{5} \cdot \frac{1}{\underset{2 \cdot 1}{\cancel{2}}} = \frac{2}{5} \left(\frac{4}{10} \right)$$

$$c) \frac{5}{6} \cdot \frac{1}{3} = \frac{5}{18}$$

$$i) \frac{1}{2} \cdot \frac{1}{2} = \frac{1}{4}$$

$$d) \frac{9}{10} \cdot \frac{3}{4} = \frac{27}{40}$$

$$j) \frac{8}{9} \cdot \frac{4}{5} = \frac{32}{45}$$

$$e) \frac{6}{7} \cdot \frac{6}{7} = \frac{36}{49}$$

$$k) \frac{5}{12} \cdot \frac{1}{4} = \frac{5}{48}$$

$$f) \frac{2}{3} \cdot \frac{4}{5} = \frac{8}{15}$$

$$l) \frac{3}{4} \cdot \frac{3}{4} = \frac{9}{16}$$

Buch S. 67 / 13

$$a) \frac{3}{7} \cdot \frac{1}{3} = \frac{\cancel{3} \cdot 1}{7 \cdot \cancel{3}} = \frac{1}{7}$$

$$g) \frac{20}{21} \cdot \frac{7}{10} = \frac{\overset{2 \cdot 10}{\cancel{20}} \cdot \underset{7 \cdot 3}{\cancel{7}}}{\cancel{21} \cdot 10} = \frac{2}{3}$$

$$b) \frac{4}{8} \cdot \frac{2}{5} = \frac{\overset{4 \cdot 1}{\cancel{4}} \cdot \overset{2 \cdot 1}{\cancel{2}}}{\underset{4 \cdot 2}{\cancel{8}} \cdot 5} = \frac{1}{5}$$

$$h) \frac{3}{4} \cdot \frac{4}{9} \cdot \frac{3}{5} = \frac{\cancel{3} \cdot \cancel{4} \cdot \cancel{3}}{\underset{4 \cdot 9 \cdot 5}{\cancel{4} \cdot \cancel{9} \cdot 5}} = \frac{1}{5}$$

$$c) \frac{14}{15} \cdot \frac{3}{8} = \frac{\overset{2 \cdot 7}{\cancel{14}} \cdot \cancel{3}}{\underset{3 \cdot 5}{\cancel{15}} \cdot \underset{2 \cdot 4}{\cancel{8}}} = \frac{7}{5 \cdot 4} = \frac{7}{20}$$

$$d) \frac{5}{8} \cdot \frac{8}{15} \cdot \frac{1}{2} = \frac{\cancel{5} \cdot \cancel{8} \cdot 1}{\underset{3 \cdot 5}{\cancel{8}} \cdot \underset{3 \cdot 2}{\cancel{15}} \cdot 2} = \frac{1}{3 \cdot 2} = \frac{1}{6}$$

$$e) \frac{9}{10} \cdot \frac{2}{3} = \frac{\overset{3 \cdot 3}{\cancel{9}} \cdot \cancel{2}}{\underset{2 \cdot 5}{\cancel{10}} \cdot \cancel{3}} = \frac{3}{5}$$

$$f) \frac{7}{12} \cdot \frac{6}{10} = \frac{7 \cdot \cancel{6}}{\underset{6 \cdot 2}{\cancel{12}} \cdot 10} = \frac{7}{2 \cdot 10} = \frac{7}{20}$$

Buch S. 67/14

$$a) 2\frac{1}{4} \cdot \frac{5}{6} = \frac{\overset{3 \cdot 3}{\cancel{9}} \cdot 5}{4 \cdot \underset{3 \cdot 2}{\cancel{6}}} = \frac{15}{8} = \underline{\underline{1\frac{7}{8}}}$$

$$b) \frac{7}{8} \cdot 4\frac{2}{3} = \frac{7 \cdot \overset{2 \cdot 2}{\cancel{4}}}{\underset{4 \cdot 2}{\cancel{8}} \cdot 3} = \frac{49}{12} = \underline{\underline{4\frac{1}{12}}}$$

$$c) 2\frac{4}{6} \cdot \frac{7}{8} = \frac{\overset{2 \cdot 8}{\cancel{16}} \cdot 7}{\underset{2 \cdot 3}{\cancel{6}} \cdot \cancel{8}} = \frac{7}{3} = \underline{\underline{2\frac{1}{3}}}$$

$$d) 3\frac{1}{2} \cdot 1\frac{3}{5} = \frac{7}{2} \cdot \frac{8}{5} = \frac{7 \cdot \overset{2 \cdot 4}{\cancel{8}}}{2 \cdot 5} = \frac{28}{5} = \underline{\underline{5\frac{3}{5}}}$$

$$e) 1\frac{3}{8} \cdot 1\frac{2}{10} = \frac{11}{8} \cdot \frac{12}{10} = \frac{11 \cdot \overset{4 \cdot 3}{\cancel{12}}}{\underset{4 \cdot 2}{\cancel{8}} \cdot 10} = \frac{33}{20} = \underline{\underline{1\frac{13}{20}}}$$

$$f) 3\frac{3}{4} \cdot 2\frac{4}{5} = \frac{15}{4} \cdot \frac{14}{5} = \frac{\overset{5 \cdot 3}{\cancel{15}} \cdot \overset{2 \cdot 7}{\cancel{14}}}{\underset{2 \cdot 2}{\cancel{4}} \cdot \underset{5 \cdot 1}{\cancel{5}}} = \frac{21}{2} = \underline{\underline{10\frac{1}{2}}}$$

Buch S. 67/16

geg:

- 5 Tage
- pro Tag $7\frac{1}{2}$ Stunden

Rechnung: $5 \cdot 7\frac{1}{2} = 5 \cdot \frac{15}{2} = \frac{5 \cdot 15}{1 \cdot 2} = \frac{75}{2} = \underline{\underline{37\frac{1}{2}}}$

Antwort : Sophias Vater arbeitet $37\frac{1}{2}$ Stunden.