Verbindung der Rechenarten

1. Berechne unter Beachtung der Rechenregeln.

a) $\frac{1}{3}+\frac{4}{5}\cdot\frac{5}{6}$ =

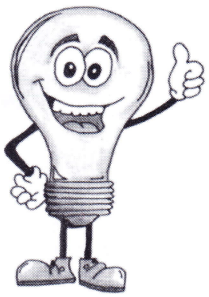
b) $\frac{9}{22}+\frac{2}{7}\cdot(-\frac{14}{11})$ =

c) $-\frac{4}{33}+\frac{5}{6}\cdot\frac{2}{11}$ =

d) $3\cdot\frac{5}{9}+\frac{4}{9}$ =

e) $1\frac{2}{3}+\frac{3}{5}:(-6)$ =

f) $3\frac{1}{4}-\frac{3}{4}:\frac{6}{13}$ =



2. Berechne unter Anwendung des Distributivgesetzes.

a) $\frac{2}{3}\cdot\frac{3}{7}+\frac{2}{3}\cdot\frac{1}{14}=\frac{2}{3}\cdot(\frac{3}{7}+\frac{1}{14})=\frac{2}{3}\cdot(\frac{6}{14}+\frac{1}{14})=\frac{2}{3}\cdot\frac{7}{14}=\frac{1}{3}$

b) $3\cdot\frac{2}{5}+3\cdot\frac{7}{15}=$

c) $\frac{4}{9}\cdot\frac{2}{11}-\frac{4}{9}\cdot\frac{5}{33}=$

d) $\frac{1}{4}\cdot\frac{1}{3}+\frac{2}{3}\cdot\frac{1}{4}=$

3. Berechne der Reihe nach.

a) 5 $:(-\frac{1}{3})$ $\cdot\frac{4}{9}$ $-\frac{1}{3}$ $\cdot 2\frac{1}{3}$ $:(-\frac{7}{15})$ $\cdot\frac{1}{7}$

b) $\frac{1}{3}$ $:5$ $+\frac{1}{3}$ $\cdot 16$ $\cdot\frac{3}{4}$ $+\frac{1}{5}$ $:\frac{5}{4}$

4. Finde das Lösungswort, indem du die Ergebnisse richtig zuordnest.

$-3\cdot(-\frac{1}{3})+3:\frac{1}{3}$ =

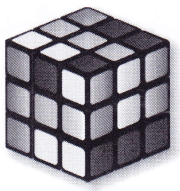
$2\frac{1}{2}-\frac{1}{4}\cdot(-7)$ =

$1\frac{1}{5}:\frac{1}{5}+\frac{1}{5}:\frac{1}{5}$ =

$2:1\frac{1}{2}-\frac{1}{3}:\frac{1}{2}$ =

$-10+10:1\frac{1}{4}$ =

$3\frac{5}{12}+\frac{7}{2}:6$ =



6	3	5	4
E	P	K	H
7	8	10	−2
O	N	F	C
$\frac{4}{3}$	$4\frac{1}{4}$	$\frac{2}{3}$	$4\frac{1}{2}$
E	R	S	N