fünf Brüche, Reihenfolge der Operationen mit Klammern

Name: _____ Datum: _____ Ergebnis: _____

$(\frac{3}{2}+(\frac{1}{4})^2)\times\frac{3}{2}+(\frac{1}{3}-\frac{1}{3})^2=$

$((\frac{3}{4})^2-\frac{3}{2})\times\frac{1}{4}+(\frac{3}{5}+\frac{1}{3})^2=$

$((\frac{1}{3})^2+\frac{1}{2})\times\frac{2}{5}-(\frac{1}{2}+\frac{2}{3})^2=$

$(\frac{3}{2}+\frac{3}{5})^2-\frac{1}{5}(\frac{1}{2}-(\frac{1}{3})^2)=$

$(\frac{1}{6}-(\frac{1}{3})^2)\times\frac{3}{4}-(\frac{1}{3}+\frac{2}{5})^2=$

$(\frac{3}{4}+\frac{1}{3})^2+\frac{1}{2}(\frac{1}{4}-\frac{1}{5})=$

$(\frac{1}{3}+\frac{3}{5})^2-\frac{2}{5}(\frac{1}{4}-(\frac{1}{2})^2)=$

$(2-\frac{1}{6})^2-\frac{2}{3}+\frac{1}{2}\times 2^2=$

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

$((\frac{1}{3})^2-\frac{1}{2})\times\frac{3}{5}-(\frac{1}{2}+\frac{3}{2})^2=$

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$(\frac{3}{2}+(\frac{1}{4})^2)\times\frac{3}{2}+(\frac{1}{3}-\frac{1}{3})^2=\frac{75}{32}=2\frac{11}{32}$

$((\frac{3}{4})^2-\frac{3}{2})\times\frac{1}{4}+(\frac{3}{5}+\frac{1}{3})^2=\frac{9169}{14400}$

$((\frac{1}{3})^2+\frac{1}{2})\times\frac{2}{5}-(\frac{1}{2}+\frac{2}{3})^2=(-\frac{67}{60})=(-1\frac{7}{60})$

$(\frac{3}{2}+\frac{3}{5})^2-\frac{1}{5}(\frac{1}{2}-(\frac{1}{3})^2)=\frac{3899}{900}=4\frac{299}{900}$

$(\frac{1}{6}-(\frac{1}{3})^2)\times\frac{3}{4}-(\frac{1}{3}+\frac{2}{5})^2=(-\frac{893}{1800})$

$(\frac{3}{4}+\frac{1}{3})^2+\frac{1}{2}(\frac{1}{4}-\frac{1}{5})=\frac{863}{720}=1\frac{143}{720}$

$(\frac{1}{3}+\frac{3}{5})^2-\frac{2}{5}(\frac{1}{4}-(\frac{1}{2})^2)=\frac{196}{225}$

$(2-\frac{1}{6})^2-\frac{2}{3}+\frac{1}{2}\times 2^2=\frac{169}{36}=4\frac{25}{36}$

$(\frac{1}{6}-\frac{3}{5})^2+\frac{1}{2}(\frac{1}{2}+\frac{3}{2})=\frac{1069}{900}=1\frac{169}{900}$

$((\frac{1}{3})^2-\frac{1}{2})\times\frac{3}{5}-(\frac{1}{2}+\frac{3}{2})^2=(-\frac{127}{30})=(-4\frac{7}{30})$