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Calculer les expressions suivantes et donner le résultat sous la forme d'une fraction irréductible.

$$A = \frac{-12}{11} - \frac{20}{99} \div \frac{20}{33}$$

$$A = \frac{-12}{11} - \frac{20}{99} \times \frac{33}{20}$$

$$A = \frac{-12}{11} - \frac{1 \times 20}{3 \times 33} \times \frac{1 \times 33}{1 \times 20}$$

$$B = \frac{-12}{11}$$

$$A = \frac{-12}{11} - \frac{1}{3}$$

$$A = \frac{-12 \times 3}{11 \times 3} - \frac{1 \times 11}{3 \times 11}$$

$$B = \frac{-12}{11}$$

$$A = \frac{-36}{33} - \frac{11}{33}$$

$$B = \frac{-12}{11}$$

$$A = \frac{-12}{11} - \frac{20}{99} \div \frac{20}{33}$$

$$A = \frac{-12}{11} - \frac{20}{99} \times \frac{33}{20}$$

$$A = \frac{-12}{11} - \frac{1}{3} \times \frac{20}{3 \times 33} \times \frac{1 \times 38}{1 \times 20}$$

$$A = \frac{-12}{11} - \frac{1}{3}$$

$$A = \frac{-12}{11} - \frac{1}{3}$$

$$A = \frac{-12_{\times 3}}{11_{\times 3}} - \frac{1_{\times 11}}{3_{\times 11}}$$

$$A = \frac{-36}{33} - \frac{11}{33}$$

$$A = \frac{-47}{33}$$

$$B = \frac{-5}{4} \div \left(\frac{13_{\times 5}}{8_{\times 5}} - \frac{-8_{\times 8}}{5_{\times 8}}\right)$$

$$B = \frac{-5}{4} \div \left(\frac{65}{40} - \frac{-64}{40}\right)$$

$$B = \frac{-5}{4} \div \frac{129}{40}$$

$$B = \frac{-5}{4} \div \frac{129}{40}$$

$$B = \frac{-5}{4} \times \frac{40}{129}$$

$$C = \frac{7}{2} + \frac{10_{\times 2}}{1_{\times 2}}$$

$$B = \frac{-5}{4} \div \frac{129}{129}$$

$$C = \frac{7}{2} + \frac{20}{2}$$

$$C = \frac{7}{2} + \frac{20}{2}$$

$$C = \frac{27}{2} \div \frac{22}{3}$$

$$C = \frac{27}{2} \times \frac{3}{22}$$

$$C = \frac{27}{2} \times \frac{3}{22}$$

$$C = \frac{1}{2} \times \frac{3}{2}$$

$$C = \frac{1}{2} \times \frac{3}{$$

Corrigé de l'exercice 2

Calculer les expressions suivantes et donner le résultat sous la forme d'une fraction irréductible.

$$A = 9 + \frac{-1}{10} \times \frac{7}{5}$$

$$A = 9 + \frac{-7}{50}$$

$$A = \frac{9 \times 50}{1 \times 50} + \frac{-7}{50}$$

$$A = \frac{450}{50} + \frac{-7}{50}$$

$$A = \frac{443}{50}$$

$$B = \frac{\frac{8}{3} + 5}{\frac{-2}{3} + 1}$$

$$B = \frac{\frac{8}{3} + \frac{5 \times 3}{1 \times 3}}{\frac{-2}{3} + \frac{1 \times 3}{1 \times 3}}$$

$$B = \frac{\frac{8}{3} + \frac{15}{3}}{\frac{-2}{3} + \frac{3}{3}}$$

$$B = \frac{23}{3} \div \frac{1}{3}$$

$$B = \frac{23}{3} \times 3$$

$$B = \frac{23}{1 \times 3} \times \frac{1 \times 3}{1}$$

$$B = 23$$

$$C = \frac{5}{4} \div \left(\frac{-2}{9} + \frac{5}{8}\right)$$

$$C = \frac{5}{4} \div \left(\frac{-2 \times 8}{9 \times 8} + \frac{5 \times 9}{8 \times 9}\right)$$

$$C = \frac{5}{4} \div \left(\frac{-16}{72} + \frac{45}{72}\right)$$

$$C = \frac{5}{4} \div \frac{29}{72}$$

$$C = \frac{5}{4} \times \frac{72}{29}$$

$$C = \frac{5}{1 \times 4} \times \frac{18 \times 4}{29}$$

$$C = \frac{90}{29}$$

Corrigé de l'exercice 3

Calculer les expressions suivantes et donner le résultat sous la forme d'une fraction irréductible.

$$A = \frac{4}{3} \div \left(\frac{1}{6} - \frac{13}{5}\right)$$

$$A = \frac{4}{3} \div \left(\frac{1 \times 5}{6 \times 5} - \frac{13 \times 6}{5 \times 6}\right)$$

$$A = \frac{4}{3} \div \left(\frac{5}{30} - \frac{78}{30}\right)$$

$$A = \frac{4}{3} \div \frac{-73}{30}$$

$$A = \frac{4}{3} \times \frac{-30}{73}$$

$$A = \frac{4}{-1 \times 3} \times \frac{10 \times 3}{73}$$

$$A = \frac{-40}{73}$$

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$$B = \frac{\frac{4}{7} - 2}{\frac{-7}{8} + 1}$$

$$B = \frac{\frac{4}{7} - \frac{2 \times 7}{1 \times 7}}{\frac{-7}{8} + \frac{1 \times 8}{1 \times 8}}$$

$$B = \frac{\frac{4}{7} - \frac{14}{7}}{\frac{-7}{8} + \frac{8}{8}}$$

$$B = \frac{-10}{7} \div \frac{1}{8}$$

$$B = \frac{-10}{7} \times 8$$

$$B = \frac{-80}{7}$$

$$C = 9 - \frac{9}{10} \times \frac{80}{27}$$

$$C = 9 - \frac{1 \times \cancel{9}}{1 \times \cancel{10}} \times \frac{8 \times \cancel{10}}{3 \times \cancel{9}}$$

$$C = 9 - \frac{8}{3}$$

$$C = \frac{9 \times 3}{1 \times 3} - \frac{8}{3}$$

$$C = \frac{27}{3} - \frac{8}{3}$$

$$C = \frac{19}{3}$$

Corrigé de l'exercice 4

Calculer les expressions suivantes et donner le résultat sous la forme d'une fraction irréductible.

$$A = \frac{\frac{9}{4} - 8}{\frac{-1}{2} - 2}$$

$$A = \frac{\frac{9}{4} - \frac{8 \times 4}{1 \times 4}}{\frac{-1}{2} - \frac{2 \times 2}{1 \times 2}}$$

$$A = \frac{\frac{9}{4} - \frac{32}{1 \times 2}}{\frac{-1}{2} - \frac{4}{2}}$$

$$A = \frac{-23}{4} \div \frac{-5}{2}$$

$$A = \frac{-23}{4} \times \frac{-2}{5}$$

$$A = \frac{-23}{-2 \times 2} \times \frac{1 \times 2}{5}$$

$$A = \frac{23}{10}$$

$$B = -63 - \frac{7}{5} \times \frac{3}{28}$$

$$B = -63 - \frac{-1 \times 7}{5} \times \frac{3}{4 \times 20}$$

$$B = -63 - \frac{-3}{20}$$

$$B = \frac{-63 \times 20}{1 \times 20} - \frac{-3}{20}$$

$$B = \frac{-1260}{20} - \frac{-3}{20}$$

$$B = \frac{-1257}{20}$$

$$B = -63 - \frac{-7}{5} \times \frac{3}{28}$$

$$B = -63 - \frac{-1 \times 7}{5} \times \frac{3}{4 \times 7}$$

$$C = \frac{-1}{3} \div \left(\frac{1}{5} + \frac{6}{7}\right)$$

$$C = \frac{-1}{3} \div \left(\frac{1 \times 7}{5 \times 7} + \frac{6 \times 5}{7 \times 5}\right)$$

$$C = \frac{-1}{3} \div \left(\frac{1 \times 7}{5 \times 7} + \frac{6 \times 5}{7 \times 5}\right)$$

$$C = \frac{-1}{3} \div \left(\frac{7}{35} + \frac{30}{35}\right)$$

$$C = \frac{-1}{3} \div \left(\frac{7}{35} + \frac{30}{35}\right)$$

$$C = \frac{-1}{3} \div \frac{37}{35}$$

$$C = \frac{-1}{3} \times \frac{35}{37}$$

Corrigé de l'exercice 5

Calculer les expressions suivantes et donner le résultat sous la forme d'une fraction irréductible.

$$A = \frac{-32}{7} - \frac{8}{21} \times \frac{49}{24}$$

$$A = \frac{-32}{7} - \frac{1 \times \cancel{8}}{3 \times \cancel{7}} \times \frac{7 \times \cancel{7}}{3 \times \cancel{8}}$$

$$A = \frac{-32}{7} - \frac{1}{9}$$

$$A = \frac{-32}{7} - \frac{7}{9}$$

$$A = \frac{-32 \times 9}{7 \times 9} - \frac{7 \times 7}{9 \times 7}$$

$$A = \frac{-288}{63} - \frac{49}{63}$$

$$A = \frac{-337}{63}$$

$$B = \frac{7}{8} \div \left(\frac{-7 \times 8}{9 \times 8} - \frac{-11 \times 9}{8 \times 9}\right)$$

$$B = \frac{7}{8} \div \left(\frac{-56}{72} - \frac{-99}{72}\right)$$

$$B = \frac{7}{8} \div \frac{43}{72}$$

$$B = \frac{7}{8} \times \frac{43}{72}$$

$$B = \frac{7}{8} \times \frac{43}{43}$$

$$C = \frac{-1}{2} + \frac{9 \times 2}{1 \times 2}$$

$$C = \frac{-1}{2} + \frac{9 \times 2}{1 \times 2}$$

$$C = \frac{-1}{2} + \frac{9 \times 2}{1 \times 2}$$

$$C = \frac{-1}{2} + \frac{9 \times 2}{1 \times 2}$$

$$C = \frac{-1}{2} + \frac{9 \times 2}{1 \times 2}$$

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$$C = \frac{-1}{2} + \frac{9 \times 2}{1 \times 2}$$

$$C = \frac{-1}{2} + \frac{9 \times 2}{1 \times 2}$$

$$C =$$

Corrigé de l'exercice 6

Calculer les expressions suivantes et donner le résultat sous la forme d'une fraction irréductible.

$$A = \frac{25}{13} - \frac{-2}{13} \times \frac{13}{5}$$

$$A = \frac{25}{13} - \frac{-2}{1 \times 13} \times \frac{1 \times 13}{5}$$

$$A = \frac{25}{13} - \frac{-2}{5}$$

$$A = \frac{25 \times 5}{13 \times 5} - \frac{-2 \times 13}{5 \times 13}$$

$$A = \frac{125}{65} - \frac{-26}{65}$$

$$A = \frac{45}{7} \div \frac{67}{9}$$

$$B = \frac{45}{7} \times \frac{9}{67}$$

$$B = \frac{405}{460}$$

$$B = \frac{405}{460}$$

$$C = \frac{5}{4} \times \left(\frac{9 \times 3}{2} + \frac{-8 \times 2}{3}\right)$$

$$C = \frac{5}{4} \times \left(\frac{9 \times 3}{2 \times 3} + \frac{-8 \times 2}{3 \times 2}\right)$$

$$C = \frac{5}{4} \times \left(\frac{9 \times 3}{2 \times 3} + \frac{-8 \times 2}{3 \times 2}\right)$$

$$C = \frac{5}{4} \times \left(\frac{27}{6} + \frac{-16}{6}\right)$$

$$C = \frac{5}{4} \times \left(\frac{27}{6} + \frac{-16}{6}\right)$$