

Corrigé de l'exercice 1

Compléter :

▶1. $\frac{16}{80} = \frac{2_{(\times 8)}}{10_{(\times 8)}}$

▶2. $\frac{1_{(\times 3)}}{4_{(\times 3)}} = \frac{3}{12}$

▶3. $\frac{4}{12} = \frac{1_{(\times 4)}}{3_{(\times 4)}}$

▶4. $\frac{10_{(\times 2)}}{6_{(\times 2)}} = \frac{20}{12}$

▶5. $\frac{40}{30} = \frac{8_{(\times 5)}}{6_{(\times 5)}}$

▶6. $\frac{7_{(\times 4)}}{3_{(\times 4)}} = \frac{28}{12}$

▶7. $\frac{24}{30} = \frac{4_{(\times 6)}}{5_{(\times 6)}}$

▶8. $\frac{7_{(\times 2)}}{8_{(\times 2)}} = \frac{14}{16}$

Corrigé de l'exercice 2

Compléter :

▶1. $\frac{20}{70} = \frac{2_{(\times 10)}}{7_{(\times 10)}}$

▶2. $\frac{10_{(\times 9)}}{4_{(\times 9)}} = \frac{90}{36}$

▶3. $\frac{6}{42} = \frac{1_{(\times 6)}}{7_{(\times 6)}}$

▶4. $\frac{56}{40} = \frac{7_{(\times 8)}}{5_{(\times 8)}}$

▶5. $\frac{54}{72} = \frac{6_{(\times 9)}}{8_{(\times 9)}}$

▶6. $\frac{24}{48} = \frac{4_{(\times 6)}}{8_{(\times 6)}}$

▶7. $\frac{28}{24} = \frac{7_{(\times 4)}}{6_{(\times 4)}}$

▶8. $\frac{14}{20} = \frac{7_{(\times 2)}}{10_{(\times 2)}}$

Corrigé de l'exercice 3

Effectuer les calculs suivants et donner le résultat sous la forme d'une fraction simplifiée :

$$A = \frac{3}{10} - \frac{9}{50}$$

$$A = \frac{3_{\times 5}}{10_{\times 5}} - \frac{9}{50}$$

$$A = \frac{3_{\times 2}}{25_{\times 2}}$$

$$A = \frac{3}{25}$$

$$B = \frac{10}{3} + \frac{4}{15}$$

$$B = \frac{10_{\times 5}}{3_{\times 5}} + \frac{4}{15}$$

$$B = \frac{18_{\times 3}}{5_{\times 3}}$$

$$B = \frac{18}{5}$$

$$C = \frac{3}{10} - \frac{7}{60}$$

$$C = \frac{3_{\times 6}}{10_{\times 6}} - \frac{7}{60}$$

$$C = \frac{11}{60}$$

$$D = \frac{3}{10} - \frac{7}{60}$$

$$D = \frac{3_{\times 6}}{10_{\times 6}} - \frac{7}{60}$$

$$D = \frac{11}{60}$$

$$E = \frac{5}{7} - \frac{10}{49}$$

$$E = \frac{5_{\times 7}}{7_{\times 7}} - \frac{10}{49}$$

$$E = \frac{25}{49}$$

$$F = \frac{6}{35} + \frac{4}{7}$$

$$F = \frac{6}{35} + \frac{4_{\times 5}}{7_{\times 5}}$$

$$F = \frac{26}{35}$$

$$G = \frac{3}{5} - \frac{2}{35}$$

$$G = \frac{3_{\times 7}}{5_{\times 7}} - \frac{2}{35}$$

$$G = \frac{19}{35}$$

$$H = \frac{3}{2} - \frac{3}{20}$$

$$H = \frac{3_{\times 10}}{2_{\times 10}} - \frac{3}{20}$$

$$H = \frac{27}{20}$$

Corrigé de l'exercice 4

Effectuer les calculs suivants et donner le résultat sous la forme d'une fraction simplifiée :

$$A = \frac{10}{9} + \frac{7}{81}$$

$$A = \frac{10_{\times 9}}{9_{\times 9}} + \frac{7}{81}$$

$$A = \frac{97}{81}$$

$$B = \frac{9}{8} - \frac{7}{48}$$

$$B = \frac{9_{\times 6}}{8_{\times 6}} - \frac{7}{48}$$

$$B = \frac{47}{48}$$

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

$$C = \frac{9_{\times 8}}{10_{\times 8}} - \frac{9}{80}$$

$$C = \frac{63}{80}$$

$$D = \frac{5}{8} - \frac{9}{64}$$

$$D = \frac{5 \times 8}{8 \times 8} - \frac{9}{64}$$

$$D = \frac{31}{64}$$

$$E = \frac{5}{36} + \frac{1}{4}$$

$$E = \frac{5}{36} + \frac{1 \times 9}{4 \times 9}$$

$$E = \frac{7 \times 2}{18 \times 2}$$

$$E = \frac{7}{18}$$

$$F = \frac{8}{15} + \frac{7}{3}$$

$$F = \frac{8}{15} + \frac{7 \times 5}{3 \times 5}$$

$$F = \frac{43}{15}$$

$$G = \frac{10}{63} - \frac{1}{9}$$

$$G = \frac{10}{63} - \frac{1 \times 7}{9 \times 7}$$

$$G = \frac{1 \times 3}{21 \times 3}$$

$$G = \frac{1}{21}$$

$$H = \frac{7}{6} - \frac{5}{54}$$

$$H = \frac{7 \times 9}{6 \times 9} - \frac{5}{54}$$

$$H = \frac{29 \times 2}{27 \times 2}$$

$$H = \frac{29}{27}$$

Corrigé de l'exercice 5

Effectuer les calculs suivants et donner le résultat sous la forme d'une fraction simplifiée :

$$A = \frac{9}{40} \times \frac{5}{36}$$

$$A = \frac{1 \times \cancel{9}}{8 \times \cancel{5}} \times \frac{1 \times \cancel{5}}{4 \times \cancel{9}}$$

$$A = \frac{1}{32}$$

$$B = \frac{4}{21} \times \frac{49}{10}$$

$$B = \frac{2 \times \cancel{2}}{3 \times \cancel{7}} \times \frac{7 \times \cancel{7}}{5 \times \cancel{2}}$$

$$B = \frac{14}{15}$$

$$C = \frac{16}{35} \times \frac{7}{20}$$

$$C = \frac{4 \times \cancel{4}}{5 \times \cancel{7}} \times \frac{1 \times \cancel{7}}{5 \times \cancel{4}}$$

$$C = \frac{4}{25}$$

$$D = \frac{45}{56} \times \frac{35}{72}$$

$$D = \frac{5 \times \cancel{9}}{8 \times \cancel{7}} \times \frac{5 \times \cancel{7}}{8 \times \cancel{9}}$$

$$D = \frac{25}{64}$$

$$E = \frac{32}{9} \times \frac{3}{64}$$

$$E = \frac{1 \times \cancel{32}}{3 \times \cancel{3}} \times \frac{1 \times \cancel{3}}{2 \times \cancel{32}}$$

$$E = \frac{1}{6}$$

$$F = \frac{1}{60} \times \frac{20}{3}$$

$$F = \frac{1}{3 \times \cancel{20}} \times \frac{1 \times \cancel{20}}{3}$$

$$F = \frac{1}{9}$$

$$G = \frac{7}{12} \times \frac{3}{2}$$

$$G = \frac{7}{4 \times \cancel{3}} \times \frac{1 \times \cancel{3}}{2}$$

$$G = \frac{7}{8}$$

$$H = \frac{25}{6} \times \frac{18}{25}$$

$$H = \frac{1 \times \cancel{25}}{1 \times \cancel{6}} \times \frac{3 \times \cancel{6}}{1 \times \cancel{25}}$$

$$H = 3$$

Corrigé de l'exercice 6

Effectuer les calculs suivants et donner le résultat sous la forme d'une fraction simplifiée :

$$A = \frac{15}{16} \times \frac{16}{25}$$

$$A = \frac{3 \times \cancel{5}}{1 \times \cancel{16}} \times \frac{1 \times \cancel{16}}{5 \times \cancel{5}}$$

$$A = \frac{3}{5}$$

$$B = \frac{40}{21} \times \frac{3}{80}$$

$$B = \frac{1 \times \cancel{40}}{7 \times \cancel{3}} \times \frac{1 \times \cancel{3}}{2 \times \cancel{40}}$$

$$B = \frac{1}{14}$$

$$C = \frac{6}{25} \times \frac{35}{18}$$

$$C = \frac{1 \times \cancel{6}}{5 \times \cancel{5}} \times \frac{7 \times \cancel{5}}{3 \times \cancel{6}}$$

$$C = \frac{7}{15}$$

$$D = \frac{8}{63} \times \frac{49}{32}$$

$$D = \frac{1 \times \cancel{8}}{9 \times \cancel{7}} \times \frac{7 \times \cancel{7}}{4 \times \cancel{8}}$$

$$D = \frac{7}{36}$$

$$E = \frac{9}{100} \times \frac{100}{27}$$

$$E = \frac{1 \times \cancel{9}}{1 \times \cancel{100}} \times \frac{1 \times \cancel{100}}{3 \times \cancel{9}}$$

$$E = \frac{1}{3}$$

$$F = \frac{63}{10} \times \frac{25}{49}$$

$$F = \frac{9 \times \cancel{7}}{2 \times \cancel{5}} \times \frac{5 \times \cancel{5}}{7 \times \cancel{7}}$$

$$F = \frac{45}{14}$$

$$G = \frac{40}{21} \times \frac{27}{28}$$

$$G = \frac{10 \times \cancel{4}}{7 \times \cancel{3}} \times \frac{9 \times \cancel{3}}{7 \times \cancel{4}}$$

$$G = \frac{90}{49}$$

$$H = \frac{63}{10} \times \frac{16}{21}$$

$$H = \frac{3 \times \cancel{21}}{5 \times \cancel{2}} \times \frac{8 \times \cancel{2}}{1 \times \cancel{21}}$$

$$H = \frac{24}{5}$$