

NOM :

PRÉNOM :

CLASSE :

Interrogation de mathématiques

Calculer et simplifier au maximum :

$$A = \frac{5}{3} - \frac{7}{15} =$$

$$B = \frac{7}{6} - \frac{8}{7} =$$

$$C = \frac{-8}{9} - \frac{-7}{12} =$$

$$D = 1 + \frac{2}{3} - \frac{3}{4} =$$

$$E = \frac{12}{35} \times \frac{25}{24} =$$

$$F = \frac{5}{7} \div \frac{10}{21} =$$

$$G = \frac{5}{7} - \frac{5}{7} \times \frac{14}{3} =$$

$$H = \frac{3}{16} \times \frac{4}{9} + \frac{5}{24} \times \frac{36}{25} =$$

$$I = \left(5 + \frac{2}{3}\right) \left(4 - \frac{3}{4}\right) =$$

$$J = \frac{\frac{3}{4} + \frac{2}{3}}{\frac{3}{4} - \frac{2}{3}} =$$

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

NOM :

PRÉNOM :

CLASSE :

Interrogation de mathématiques

Calculer et simplifier au maximum :

$$A = \frac{5}{4} - \frac{7}{16} =$$

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

$$C = \frac{-8}{9} - \frac{-7}{15} =$$

$$D = 1 + \frac{2}{5} - \frac{3}{4} =$$

$$E = \frac{18}{35} \times \frac{25}{27} =$$

$$F = \frac{5}{7} \div \frac{20}{21} =$$

$$G = \frac{5}{7} - \frac{5}{7} \times \frac{14}{5} =$$

$$H = \frac{3}{20} \times \frac{4}{9} + \frac{5}{24} \times \frac{42}{25} =$$

$$I = \left(5 + \frac{3}{2}\right) \left(4 - \frac{4}{3}\right) =$$

$$J = \frac{\frac{5}{4} + \frac{2}{3}}{\frac{4}{5} - \frac{3}{2}} =$$

$$K = \frac{2 - \frac{3}{7}}{\frac{1}{4} + 1} =$$

NOM :

PRÉNOM :

CLASSE :

Interrogation de mathématiques

Calculer et simplifier au maximum :

$$A = \frac{5}{3} - \frac{7}{15} = \frac{25}{15} - \frac{7}{15} = \frac{18}{15} = \boxed{\frac{6}{5}}$$

$$B = \frac{7}{6} - \frac{8}{7} = \frac{49}{42} - \frac{48}{42} = \boxed{\frac{1}{42}}$$

$$C = \frac{-8}{9} - \frac{-7}{12} = -\frac{8}{9} + \frac{7}{12} = -\frac{32}{36} + \frac{21}{36} = \boxed{-\frac{11}{36}}$$

$$D = 1 + \frac{2}{3} - \frac{3}{4} = \frac{12}{12} + \frac{8}{12} - \frac{9}{12} = \boxed{\frac{11}{12}}$$

$$E = \frac{12}{35} \times \frac{25}{24} = \frac{12 \times 5 \times 5}{7 \times 5 \times 12 \times 2} = \boxed{\frac{5}{14}}$$

$$F = \frac{5}{7} \div \frac{10}{21} = \frac{5}{7} \times \frac{21}{10} = \frac{5 \times 7 \times 3}{7 \times 5 \times 2} = \boxed{\frac{3}{2}}$$

$$G = \frac{5}{7} - \frac{5}{7} \times \frac{14}{3} = \frac{5}{7} - \frac{5 \times 7 \times 2}{7 \times 3} = \frac{5}{7} - \frac{10}{3} = \frac{15}{21} - \frac{70}{21} = \boxed{-\frac{55}{21}}$$

$$H = \frac{3}{16} \times \frac{4}{9} + \frac{5}{24} \times \frac{36}{25} = \frac{3 \times 4}{4 \times 4 \times 3 \times 3} + \frac{5 \times 6 \times 6}{6 \times 4 \times 5 \times 5} = \frac{1}{12} + \frac{6}{20} = \frac{1}{12} + \frac{3}{10} = \frac{5}{60} + \frac{18}{60} = \boxed{\frac{23}{60}}$$

$$I = \left(5 + \frac{2}{3}\right) \left(4 - \frac{3}{4}\right) = \left(\frac{15}{3} + \frac{2}{3}\right) \left(\frac{16}{4} - \frac{3}{4}\right) = \frac{17}{3} \times \frac{13}{4} = \boxed{\frac{221}{12}}$$

$$J = \frac{\frac{3}{4} + \frac{2}{3}}{\frac{4}{4} - \frac{3}{3}} = \frac{\frac{9}{12} + \frac{8}{12}}{\frac{12}{12} - \frac{12}{12}} = \frac{17}{12} \div \frac{1}{12} = \frac{17}{12} \times \frac{12}{1} = \boxed{17}$$

$$K = \frac{2 - \frac{3}{5}}{\frac{1}{3} + 1} = \frac{\frac{10}{5} - \frac{3}{5}}{\frac{1}{3} + \frac{3}{3}} = \frac{7}{5} \div \frac{4}{3} = \frac{7}{5} \times \frac{3}{4} = \boxed{\frac{21}{20}}$$

NOM :

PRÉNOM :

CLASSE :

Interrogation de mathématiques

Calculer et simplifier au maximum :

$$A = \frac{5}{4} - \frac{7}{16} = \frac{20}{16} - \frac{7}{16} = \boxed{\frac{13}{16}}$$

$$B = \frac{7}{8} - \frac{8}{7} = \frac{49}{56} - \frac{64}{56} = \boxed{-\frac{15}{56}}$$

$$C = \frac{-8}{9} - \frac{-7}{15} = -\frac{8}{9} + \frac{7}{15} = -\frac{40}{45} + \frac{21}{45} = \boxed{-\frac{19}{45}}$$

$$D = 1 + \frac{2}{5} - \frac{3}{4} = \frac{20}{20} + \frac{8}{20} - \frac{15}{20} = \boxed{\frac{13}{20}}$$

$$E = \frac{18}{35} \times \frac{25}{27} = \frac{9 \times 2 \times 5 \times 5}{7 \times 5 \times 9 \times 3} = \boxed{\frac{10}{21}}$$

$$F = \frac{5}{7} \div \frac{20}{21} = \frac{5}{7} \times \frac{21}{20} = \frac{5 \times 7 \times 3}{7 \times 5 \times 4} = \boxed{\frac{3}{4}}$$

$$G = \frac{5}{7} - \frac{5}{7} \times \frac{14}{5} = \frac{5}{7} - \frac{5 \times 7 \times 2}{7 \times 5} = \frac{5}{7} - \frac{2}{1} = \frac{5}{7} - \frac{14}{7} = \boxed{-\frac{9}{7}}$$

$$H = \frac{3}{20} \times \frac{4}{9} + \frac{5}{24} \times \frac{42}{25} = \frac{3 \times 4}{4 \times 5 \times 3 \times 3} + \frac{5 \times 6 \times 7}{6 \times 4 \times 5 \times 5} = \frac{1}{15} + \frac{7}{20} = \frac{4}{60} + \frac{21}{60} = \frac{25}{60} = \boxed{\frac{5}{12}}$$

$$I = \left(5 + \frac{3}{2}\right) \left(4 - \frac{4}{3}\right) = \left(\frac{10}{2} + \frac{3}{2}\right) \left(\frac{12}{3} - \frac{4}{3}\right) = \frac{13}{2} \times \frac{8}{3} = \frac{104}{6} = \boxed{\frac{52}{3}}$$

$$J = \frac{\frac{5}{4} + \frac{2}{3}}{\frac{4}{4} - \frac{3}{3}} = \frac{\frac{15}{12} + \frac{8}{12}}{\frac{15}{12} - \frac{8}{12}} = \frac{23}{12} \div \frac{7}{12} = \frac{23}{12} \times \frac{12}{7} = \boxed{\frac{23}{7}}$$

$$K = \frac{2 - \frac{3}{7}}{\frac{1}{4} + 1} = \frac{\frac{14}{7} - \frac{3}{7}}{\frac{1}{4} + \frac{4}{4}} = \frac{11}{7} \div \frac{5}{4} = \frac{11}{7} \times \frac{4}{5} = \boxed{\frac{44}{35}}$$

NOM :

PRÉNOM :

CLASSE :

Calculer et simplifier au maximum les expressions suivantes :

$$A = \frac{3}{7} + \frac{5}{4}$$

$$B = \frac{3}{5} - \frac{5}{6}$$

$$C = \frac{2}{3} - \frac{3}{4} - \frac{4}{5}$$

$$D = -\frac{3}{5} - \frac{6}{9} + \frac{1}{15} - \frac{5}{3}$$

$$E = \frac{2}{3} + \frac{5}{3} \times \frac{2}{7}$$

$$F = \frac{-3}{4} \times \frac{-6}{5} + 1$$

$$G = \frac{5}{3} \times \frac{7}{10} - \frac{8}{5} \times \frac{3}{4}$$

$$H = \left(1 + \frac{2}{3}\right) \left(1 - \frac{2}{3}\right)$$

$$I = \left(\frac{4}{3} - \frac{2}{7}\right) \left(\frac{6}{11} - \frac{3}{2}\right)$$

NOM :

PRÉNOM :

CLASSE :

Calculer et simplifier au maximum les expressions suivantes :

$$A = \frac{3}{7} + \frac{5}{4}$$

$$A = \frac{12}{28} + \frac{35}{28}$$

$$\boxed{A = \frac{47}{28}}$$

$$D = -\frac{3}{5} - \frac{6}{9} + \frac{1}{15} - \frac{5}{3}$$

$$D = -\frac{27}{45} - \frac{30}{45} + \frac{3}{45} - \frac{75}{45}$$

$$D = -\frac{75}{45}$$

$$D = -\frac{5 \times 15}{3 \times 15}$$

$$\boxed{D = -\frac{5}{3}}$$

$$G = \frac{5}{3} \times \frac{7}{10} - \frac{8}{5} \times \frac{3}{4}$$

$$G = \frac{5 \times 7}{3 \times 5 \times 2} - \frac{4 \times 2 \times 3}{5 \times 4}$$

$$G = \frac{7}{6} - \frac{6}{5}$$

$$G = \frac{35}{30} - \frac{36}{30}$$

$$\boxed{G = -\frac{1}{30}}$$

$$B = \frac{3}{5} - \frac{5}{6}$$

$$B = \frac{18}{30} - \frac{25}{30}$$

$$\boxed{B = -\frac{7}{30}}$$

$$E = \frac{2}{3} + \frac{5}{3} \times \frac{2}{7}$$

$$E = \frac{2}{3} + \frac{10}{21}$$

$$E = \frac{14}{21} + \frac{10}{21}$$

$$E = \frac{24}{21}$$

$$\boxed{E = \frac{8}{7}}$$

$$H = \left(1 + \frac{2}{3}\right) \left(1 - \frac{2}{3}\right)$$

$$H = \left(\frac{3}{3} + \frac{2}{3}\right) \left(\frac{3}{3} - \frac{2}{3}\right)$$

$$H = \frac{5}{3} \times \frac{1}{3}$$

$$\boxed{H = \frac{5}{9}}$$

$$C = \frac{2}{3} - \frac{3}{4} - \frac{4}{5}$$

$$C = \frac{40}{60} - \frac{45}{60} - \frac{48}{60}$$

$$\boxed{C = -\frac{53}{60}}$$

$$F = \frac{-3}{4} \times \frac{-6}{5} + 1$$

$$F = \frac{18}{20} + 1$$

$$F = \frac{9}{10} + \frac{10}{10}$$

$$\boxed{F = \frac{19}{10}}$$

$$I = \left(\frac{4}{3} - \frac{2}{7}\right) \left(\frac{6}{11} - \frac{3}{2}\right)$$

$$I = \left(\frac{28}{21} - \frac{6}{21}\right) \left(\frac{12}{22} - \frac{33}{22}\right)$$

$$I = \frac{22}{21} \times \left(-\frac{21}{22}\right)$$

$$I = -\frac{22 \times 21}{21 \times 22}$$

$$\boxed{I = -1}$$

NOM :

PRÉNOM :

CLASSE :

Calculer et simplifier au maximum les expressions suivantes :

$$A = \frac{4}{7} + \frac{5}{4}$$

$$B = \frac{4}{5} - \frac{5}{6}$$

$$C = \frac{2}{3} - \frac{3}{4} - \frac{3}{5}$$

$$D = -\frac{3}{5} - \frac{6}{9} + \frac{2}{15} - \frac{5}{3}$$

$$E = \frac{2}{3} + \frac{4}{3} \times \frac{2}{7}$$

$$F = \frac{-3}{4} \times \frac{-7}{5} + 1$$

$$G = \frac{5}{3} \times \frac{7}{15} - \frac{8}{5} \times \frac{7}{4}$$

$$H = \left(1 + \frac{2}{5}\right) \left(1 - \frac{2}{5}\right)$$

$$I = \left(\frac{7}{3} - \frac{9}{7}\right) \left(\frac{6}{11} - \frac{3}{2}\right)$$

NOM :

PRÉNOM :

CLASSE :

Calculer et simplifier au maximum les expressions suivantes :

$$A = \frac{4}{7} + \frac{5}{4}$$

$$A = \frac{16}{28} + \frac{35}{28}$$

$$\boxed{\frac{51}{28}}$$

$$D = -\frac{3}{5} - \frac{6}{9} + \frac{2}{15} - \frac{5}{3}$$

$$D = -\frac{27}{45} - \frac{30}{45} + \frac{6}{45} - \frac{75}{45}$$

$$D = -\frac{126}{45}$$

$$D = -\frac{9 \times 14}{9 \times 5}$$

$$\boxed{D = -\frac{14}{5}}$$

$$G = \frac{5}{3} \times \frac{7}{15} - \frac{8}{5} \times \frac{7}{4}$$

$$G = \frac{5 \times 7}{3 \times 5 \times 3} - \frac{2 \times 4 \times 7}{5 \times 4}$$

$$G = \frac{7}{9} - \frac{14}{5}$$

$$G = \frac{35}{45} - \frac{126}{45}$$

$$\boxed{G = -\frac{91}{45}}$$

$$B = \frac{4}{5} - \frac{5}{6}$$

$$B = \frac{24}{30} - \frac{25}{30}$$

$$\boxed{-\frac{1}{30}}$$

$$E = \frac{2}{3} + \frac{4}{3} \times \frac{2}{7}$$

$$E = \frac{2}{3} + \frac{8}{21}$$

$$E = \frac{14}{21} + \frac{8}{21}$$

$$\boxed{E = \frac{22}{21}}$$

$$H = \left(1 + \frac{2}{5}\right) \left(1 - \frac{2}{5}\right)$$

$$H = \left(\frac{5}{5} + \frac{2}{5}\right) \left(\frac{5}{5} - \frac{2}{5}\right)$$

$$H = \frac{7}{5} \times \frac{3}{5}$$

$$\boxed{H = \frac{21}{25}}$$

$$C = \frac{2}{3} - \frac{3}{4} - \frac{3}{5}$$

$$C = \frac{40}{60} - \frac{45}{60} - \frac{48}{60}$$

$$\boxed{-\frac{53}{60}}$$

$$F = \frac{-3}{4} \times \frac{-7}{5} + 1$$

$$F = \frac{21}{20} + 1$$

$$F = \frac{21}{20} + \frac{20}{20}$$

$$\boxed{F = \frac{41}{20}}$$

$$I = \left(\frac{7}{3} - \frac{9}{7}\right) \left(\frac{6}{11} - \frac{3}{2}\right)$$

$$I = \left(\frac{49}{21} - \frac{27}{21}\right) \left(\frac{12}{22} - \frac{33}{22}\right)$$

$$I = \frac{22}{21} \times \left(-\frac{21}{22}\right)$$

$$I = -\frac{22 \times 21}{21 \times 22}$$

$$\boxed{I = -1}$$