

Révision N1

Nomme les carrer parfait entre 1 et 225

N6 Multiplier et diviser les fractions.

4. Quelle opération doit être faite en premier ?

a) $\frac{1}{3} \times \left(\frac{7}{8} - \frac{3}{4} \right)$

b) $\frac{7}{8} \div \left(\frac{1}{3} \times \frac{1}{8} \right)$

c) $\frac{9}{5} \times \left(\frac{3}{5} \div \frac{1}{10} \right)$

d) $\left(\frac{5}{3} + \frac{7}{12} \right) \times \frac{4}{9}$

6. Évalue ces expressions. Quelle opération doit être faite en premier?

a) $\frac{1}{2} \times \frac{3}{5} + \frac{1}{4}$

b) $\frac{2}{3} + \frac{5}{6} \div \frac{1}{2}$

c) $\frac{4}{5} \div \frac{7}{10} + \frac{1}{3}$

d) $\frac{1}{4} \times (\frac{11}{12} - \frac{5}{6})$

e) $\frac{1}{2} \times (\frac{4}{5} \div \frac{3}{10})$

f) $(\frac{3}{5} + \frac{7}{15}) \times \frac{5}{6}$

c) $\frac{4}{5} \div \frac{7}{10} + \frac{1}{3}$

$\frac{4}{5} \times \frac{10}{7} + \frac{1}{3}$

$\frac{3 \times 8}{7} + \frac{1 \times 7}{3}$
 $\frac{24}{7} + \frac{7}{3}$

PPDC
 7 14 (21)
 3 6 9 12 15 18 21

$\frac{24+7}{21} = \frac{31}{21}$

$\frac{10}{21}$

9. Évalue ces expressions.

a) $\frac{7}{10} - \left(\frac{1}{5} + \frac{1}{4}\right) \times \frac{2}{3}$

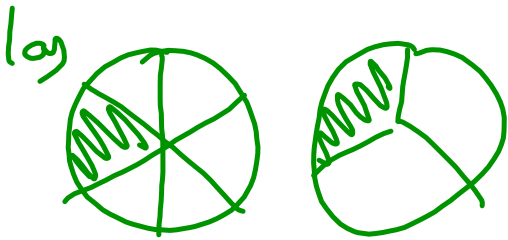
b) $\left(\frac{1}{4} + \frac{5}{6} - \frac{1}{3}\right) \times \frac{8}{5}$

c) $\left(\frac{6}{5} + \frac{4}{10}\right) \times \left(\frac{3}{8} - \frac{1}{16}\right)$

10. Évalue ces expressions.

a) $\frac{5}{2} + \frac{1}{4} \times \frac{4}{5} \div \frac{1}{10} - \frac{1}{2}$

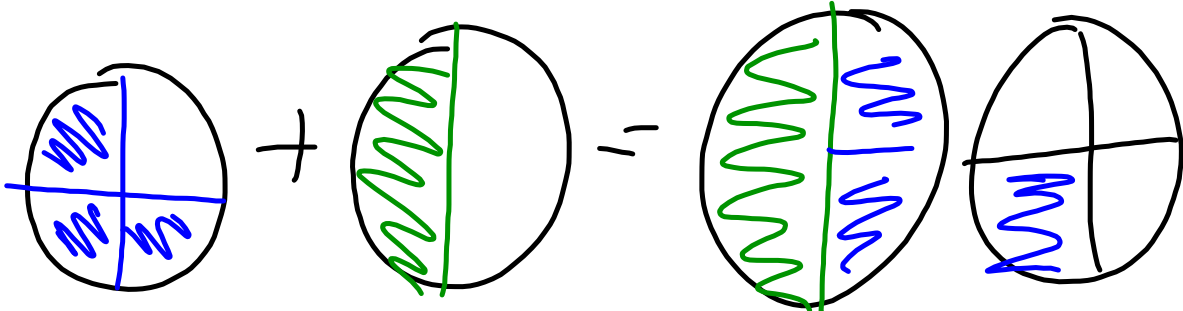
b) $\frac{4}{9} \times \left(\frac{2}{3} - \frac{1}{6}\right) - \frac{1}{8} \times \frac{4}{3}$



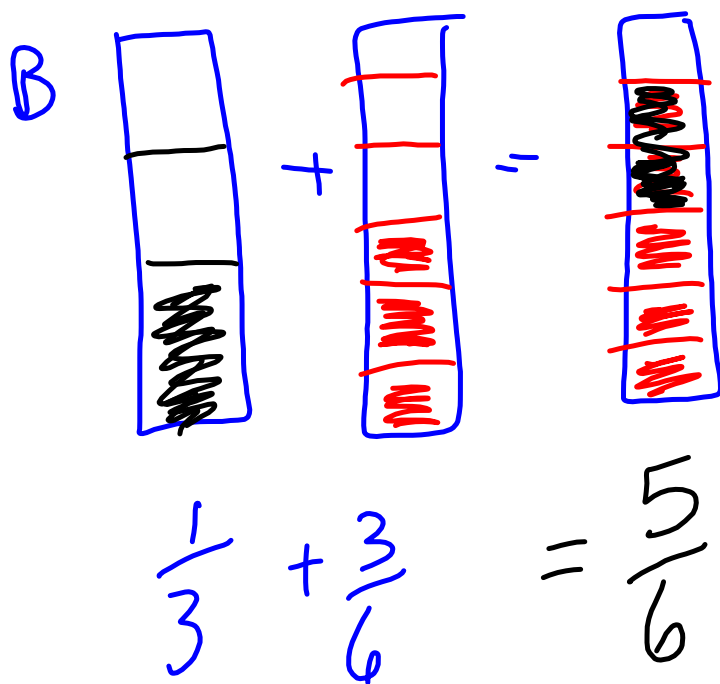
$$\frac{1}{6} + \frac{1}{3} = \frac{1}{2}$$

$\frac{3}{5} + \frac{3}{10} = \frac{9}{10}$

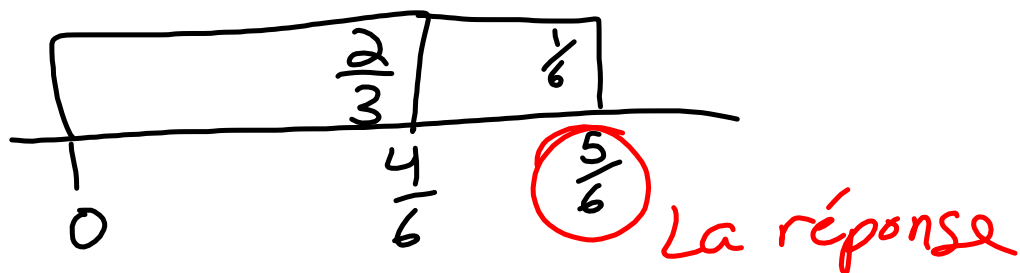
2



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

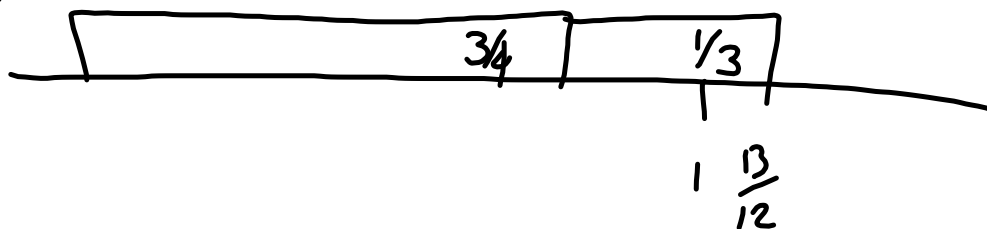


3.



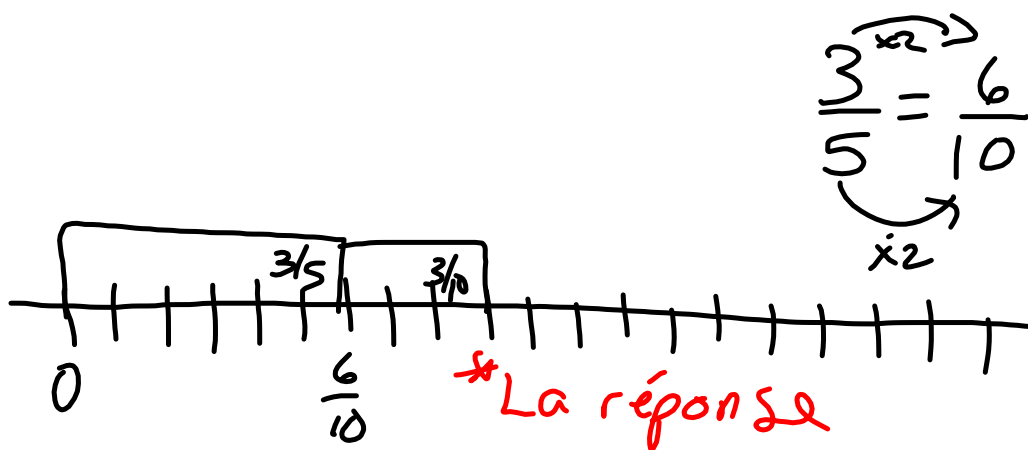
$$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$$

B)



$$\frac{3}{4} + \frac{1}{3} = 1\frac{1}{12}$$

4.



$$\frac{3}{5} + \frac{3}{10} = \frac{9}{10}$$

$$5 \text{ a) } \frac{3}{4} = \frac{9}{12}$$

Handwritten annotations: An arrow labeled $\times 3$ points from the numerator 3 to 9. Another arrow labeled $\times 3$ points from the denominator 4 to 12.

$$\text{b) } \frac{10}{12} = \frac{5}{6}$$

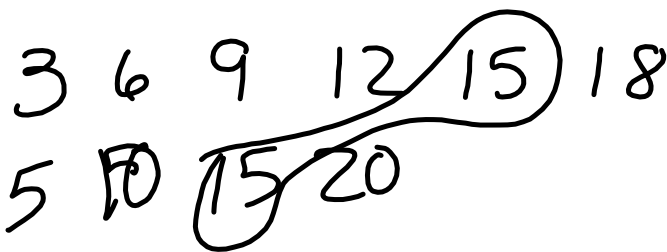
Handwritten annotations: An arrow labeled $\div 2$ points from the numerator 10 to 5. Another arrow labeled $\div 2$ points from the denominator 12 to 6.

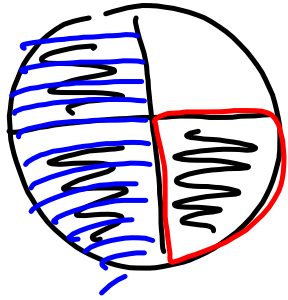
$$\text{c) } \frac{4}{6} = \frac{2}{3}$$

Handwritten annotations: An arrow labeled $\div 2$ points from the numerator 4 to 2. Another arrow labeled $\div 2$ points from the denominator 6 to 3.

$$\frac{2}{3} \text{ et } \frac{3}{5}$$

PPDC



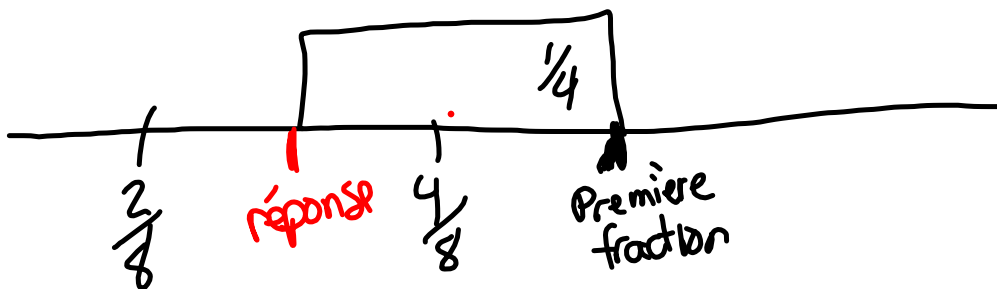


— La réponse est la partie de la première fraction qui n'est pas colorier deux fois.

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

↳ colore sur la première fraction

B)



$$\frac{5}{8} - \frac{1}{4} = \frac{3}{8}$$

Écris 2 soustractions qui on
une différence de $\frac{1}{2}$.

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

$$\frac{4}{4} - \frac{1}{2} = \frac{1}{2}$$

$$\frac{20}{30} - \frac{5}{30} = \frac{1}{2}$$

$$\frac{3}{4} - \frac{1}{12}$$

$\times 3 \rightarrow$

$$\frac{9}{12} - \frac{1}{12}$$
$$\frac{8}{12} = \frac{2}{3}$$

(Note: In the original image, the numbers 8 and 12 in the final fraction are marked with a green ':4', and the entire fraction $\frac{2}{3}$ is enclosed in a green box.)

$$\frac{4}{12} = \frac{8}{24} = \frac{12}{36}$$

Écris les fractions impropres.

$$4\frac{+2}{5}$$

$$3\frac{+2}{6}$$

$$4\frac{+1}{2}$$

$$5 \times 4 + 2 = 22$$

$$\frac{22}{5}$$

$$\frac{20}{6}$$

$$\frac{9}{2}$$

Réduit à la forme la plus simple.

$$\frac{30}{4} = \frac{12}{10} \quad \frac{9}{8}$$

$\frac{30}{28} \cdot \frac{2}{2}$

$$7\frac{2}{4} \quad 1\frac{2}{10} \quad \boxed{1\frac{1}{8}}$$
$$\boxed{7\frac{1}{2}} \quad \boxed{1\frac{1}{5}}$$

$$a) \frac{7}{8} - \frac{5}{8} = \frac{2}{8} = \frac{1}{4}$$

$$b) \frac{2^{x^2}}{3^{x^2}} + \frac{2}{6}$$

$$\frac{4}{6} + \frac{2}{6} = \frac{6}{6} = 1$$

$$c) \frac{2}{9} + \frac{1 \times 3}{3 \times 3}$$

$$\frac{2}{9} + \frac{3}{9}$$

9/9

$$D) \frac{2^3}{3 \times 3} - \frac{2}{9}$$
$$\frac{6}{9} - \frac{2}{9} = \boxed{\frac{4}{9}}$$

$$3\frac{7}{10} + 2\frac{1}{10}$$

$$5\frac{8}{10} = \boxed{5\frac{4}{5}}$$

$$5\frac{11}{12} - 1\frac{7}{12}$$

$$5 - 1 = 4$$

or

$$\frac{11}{12} - \frac{7}{12} = \frac{4}{12} = \frac{1}{3}$$

$$4\frac{1}{3}$$

$$5\frac{11}{12} - 1\frac{7}{12}$$

$$\frac{71}{12} - \frac{19}{12}$$

$$\frac{52}{12}$$

$$4\frac{4}{12} = 4\frac{1}{3}$$

$$\begin{array}{r} \triangle 1 \\ - 19 \\ \hline 52 \end{array}$$

$$\begin{array}{r} 52 \\ \hline 104 \end{array}$$

$$6) 3\frac{7}{8} + 1\frac{5}{8}$$

$$3 + 1 = 4$$

$$\frac{7}{8} + \frac{5}{8} = \frac{12}{8} = 1\frac{4}{8} = 1\frac{1}{2}$$

$$4 + 1\frac{1}{2} = \boxed{5\frac{1}{2}}$$

$$2\frac{+5}{\times 7} - \left| \frac{+3}{\times 14} \right.$$

$$\frac{19 \times 2}{7 \times 2} - \frac{17}{14}$$

$$\frac{38}{14} - \frac{17}{14}$$

$$\frac{21}{14} = 1\frac{7}{14} = \boxed{1\frac{1}{2}}$$

fractions
impropres

dénominateurs
en
communs.

$$\frac{7}{8} - \frac{3}{4} \times 2$$

$$\frac{7}{8} - \frac{6}{8} = \boxed{\frac{1}{8}}$$

$$\frac{3}{4} + \frac{7}{8}$$

(Note: The number 3 in the first fraction has a blue 'x2' written above it, and the number 4 has a red 'x2' written below it.)

$$\frac{6}{8} + \frac{7}{8} = \frac{13}{8} = \boxed{1\frac{5}{8}}$$