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

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

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

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

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

$\frac{4}{5} \times \frac{10^2}{7} + \frac{1}{3}$

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

PPDC

7 14 21

3 6 9 12 15 18 21

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

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

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

$1\frac{10}{21}$

9. Évalue ces expressions.

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

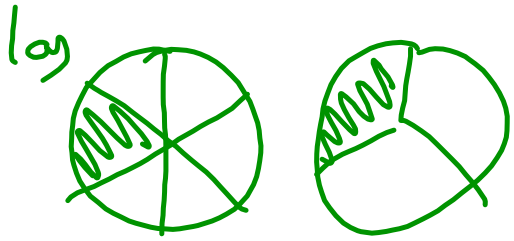
b) $(\frac{1}{4} + \frac{5}{6} - \frac{1}{3}) \times \frac{8}{5}$

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

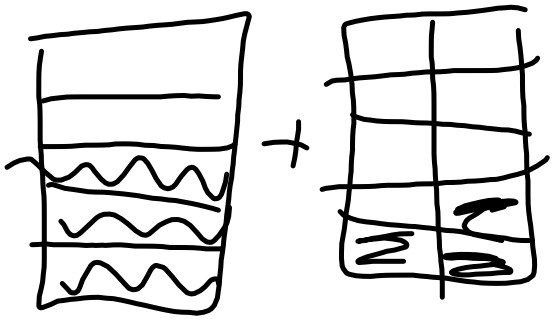
10. Évalue ces expressions.

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

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

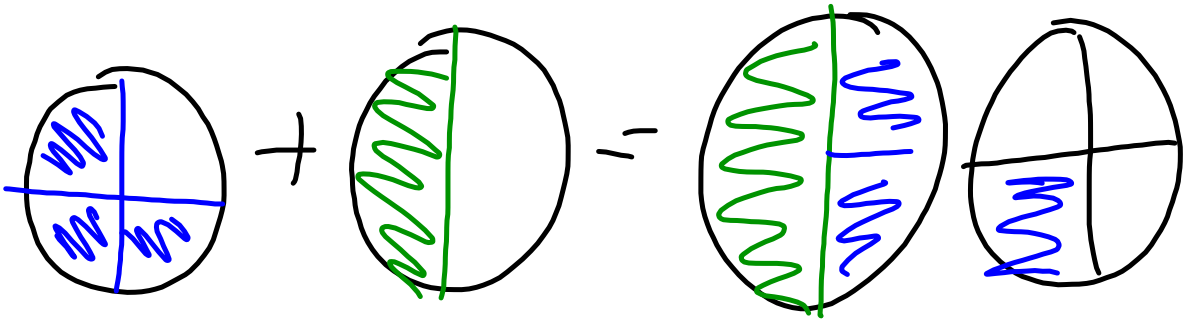


$$\frac{1}{6} + \frac{1}{3} = \frac{1}{2}$$

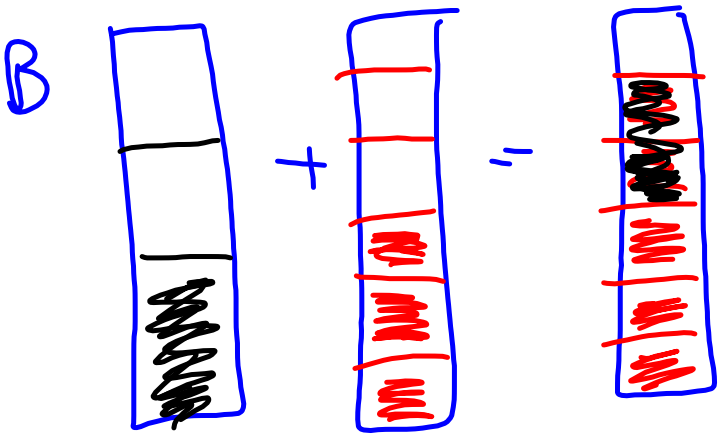


$$\frac{3}{5} + \frac{3}{10} = \frac{9}{10}$$

2

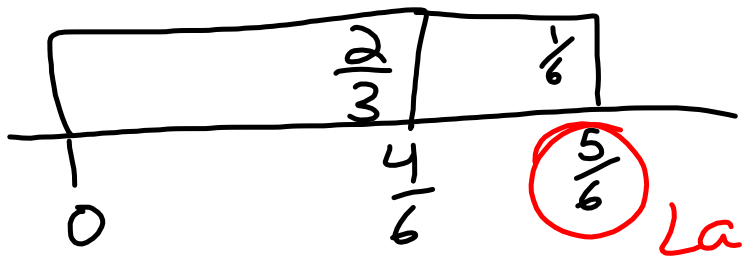


$\frac{3}{4} + \frac{1}{2} = 1\frac{1}{4}$

B 

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

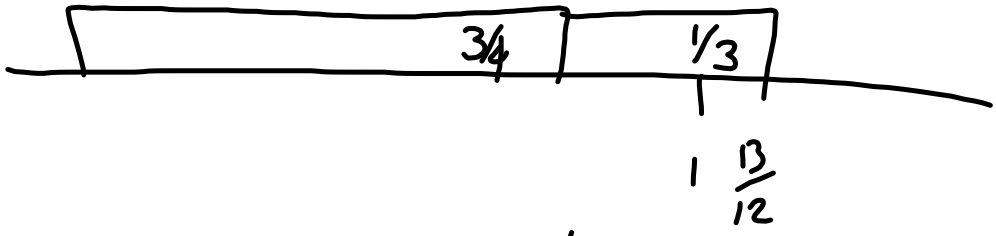
3.



La réponse

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

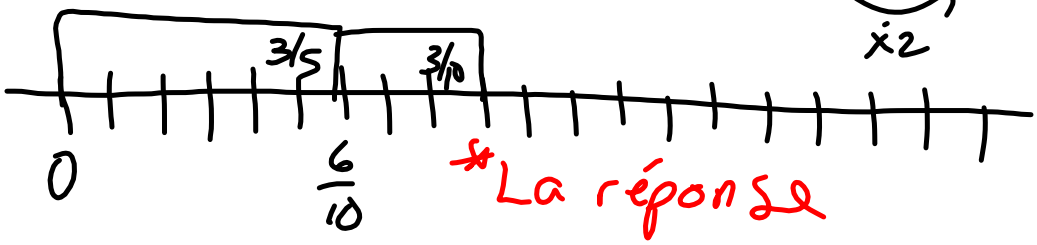
B)



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

4.

$\frac{3}{5} = \frac{6}{10}$ (×2)



*La réponse

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

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

b) $\frac{10}{12} = \frac{5}{6}$ (÷2)

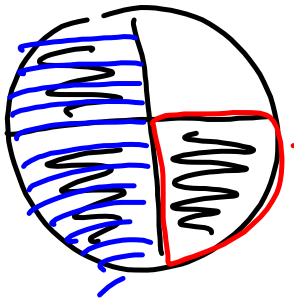
c) $\frac{4}{6} = \frac{2}{3}$ (÷2)

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

PPDC

3 6 9 12 15 18

5 10 15 20

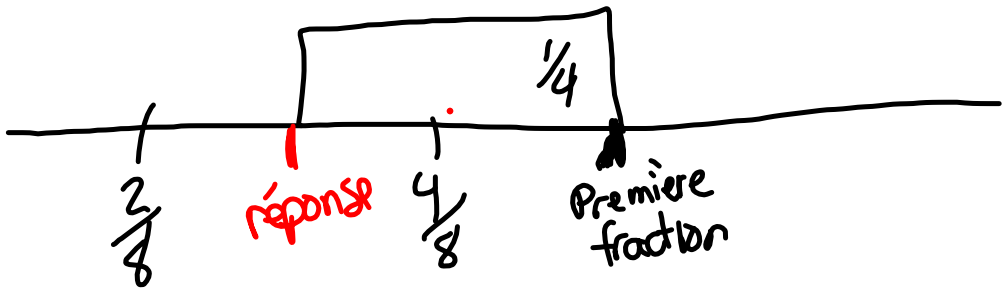


La réponse est la partie de la première fraction qui n'est pas colorier deux fois.

↳ cobre sur la premiere fraction

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

B)



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

Écris 2 soustractions qui on une différence de ½.

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

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

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

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

$$\frac{9}{12} - \frac{1}{12}$$

$\times 3$

$$\frac{8}{12} = \frac{2}{3}$$

$\div 4$ $\div 4$

4 8 12

12

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.

$\frac{30}{4}$ = $\frac{30}{28}$ $\frac{2}{2}$

$7\frac{2}{4}$

$7\frac{1}{2}$

$\frac{12}{10}$

$1\frac{2}{10}$

$1\frac{1}{5}$

$\frac{9}{8}$

$1\frac{1}{8}$

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

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

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

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

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

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

D) $\frac{2 \times 3}{3 \times 3} - \frac{2}{9}$

$\frac{6}{9} - \frac{2}{9} = \boxed{\frac{4}{9}}$

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

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

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

$5 - 1 = 4$

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

$4\frac{1}{3}$

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

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

$\frac{52}{12}$

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

$-\frac{19}{52}$

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

$3 + 1 = 4$

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

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

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

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

$\frac{38}{14} - \frac{17}{14}$ → dénominateurs en communs.

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

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

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

$\frac{3}{4} \overset{\times 2}{+} \frac{7}{8}$

$\times 2$

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