

Devoirs 2 reponses

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Addition, soustraction de fractions

Devoirs 2

Nom: _____ Per _____

1. Complète les tableaux.

nombre mixte	fraction impropre
$4\frac{2}{5}$	$\frac{22}{4}$
$1\frac{22}{60} = 1\frac{11}{30}$	$\frac{82}{60}$
$6\frac{7}{11}$	$\frac{73}{11}$

nombre mixte	fraction impropre
$15\frac{3}{4}$	$\frac{63}{4}$
$5\frac{1}{7}$	$\frac{36}{7}$
$6\frac{3}{8}$	$\frac{51}{8}$

2. Effectue les calculs suivants :

$\frac{1}{5} + \frac{5}{8} = \frac{8}{40} + \frac{25}{40} = \frac{33}{40}$	$\frac{5}{3} - \frac{7}{12} = \frac{20}{12} - \frac{7}{12} = \frac{13}{12} = 1\frac{1}{12}$
$\frac{2}{9} + \frac{1}{18} = \frac{5}{18}$	$\frac{8}{27} - \frac{5}{18} = \frac{16}{54} - \frac{15}{54} = \frac{1}{54}$ D.C = 54
$4\frac{3}{4} - 3\frac{7}{8} = 4\frac{6}{8} - 3\frac{7}{8} = \frac{7}{8}$	$7\frac{2}{3} + 2\frac{3}{5} = 7 + 2 + \frac{2}{3} + \frac{3}{5} = 9 + \frac{19}{15} = 10\frac{4}{15}$
$\frac{1}{2} + \frac{1}{3} + \frac{1}{4} = \frac{6}{12} + \frac{4}{12} + \frac{3}{12} = \frac{13}{12} = 1\frac{1}{12}$ D.C. = 12	
$\frac{3}{5} + \frac{2}{3} - \frac{3}{4} = \frac{36}{60} + \frac{40}{60} - \frac{45}{60} = \frac{31}{60}$ D.C = 60	
$\frac{7}{2} + \frac{1}{8} - \frac{3}{10} = \frac{140}{40} + \frac{5}{40} - \frac{12}{40} = \frac{133}{40} = 3\frac{13}{40}$ D.C = 40	

$$\frac{1}{6} - \frac{3}{11} + \frac{2}{3} = \frac{11}{66} - \frac{18}{66} + \frac{44}{66} = \frac{37}{66}$$

$$D.C = 66$$

$$\frac{11}{6} - \frac{8}{3} + 1\frac{3}{4} = \frac{44}{24} - \frac{64}{24} + 1\frac{18}{24} = \frac{22}{24} = \frac{11}{12}$$

$$D.C = 24$$

$$\frac{1}{12} - \frac{1}{18} + \frac{5}{6} = \frac{3}{36} - \frac{2}{36} + \frac{30}{36} = \frac{31}{36}$$

$$D.C = 36$$

$$\frac{2}{21} - \frac{1}{35} + \frac{3}{7} = \frac{10}{105} - \frac{3}{105} + \frac{45}{105} = \frac{52}{105}$$

$$D.C = 7 \cdot 3 \cdot 5 = 105$$

3. Trouve la fraction manquante dans les égalités suivantes :

$$\frac{3}{5} + \frac{?}{?} = \frac{7}{8}$$

$$\frac{7}{8} - \frac{3}{5} = \frac{35}{40} - \frac{24}{40} = \boxed{\frac{11}{40}}$$

$$\frac{2}{9} + \frac{?}{?} = \frac{10}{27}$$

$$\frac{10}{27} - \frac{2}{9} = \boxed{\frac{4}{27}}$$

$$\frac{8}{15} - \frac{?}{?} = \frac{3}{20}$$

$$\frac{8}{15} - \frac{3}{20} = \frac{32}{60} - \frac{9}{60} = \boxed{\frac{23}{60}}$$

$$\frac{7}{12} - \frac{?}{?} = \frac{11}{30}$$

$$\frac{7}{12} - \frac{11}{30} = \frac{35}{60} - \frac{22}{60} = \boxed{\frac{13}{60}}$$

$$\frac{?}{?} - \frac{5}{18} = \frac{4}{15}$$

$$\frac{5}{18} + \frac{4}{15} = \frac{25}{90} + \frac{24}{90} = \boxed{\frac{49}{90}}$$

$$\frac{?}{?} - \frac{6}{7} = \frac{3}{14}$$

$$\frac{6}{7} + \frac{3}{14} = \frac{15}{14} = \boxed{1\frac{1}{14}}$$

$$D.C = 3 \cdot 6 \cdot 5$$