

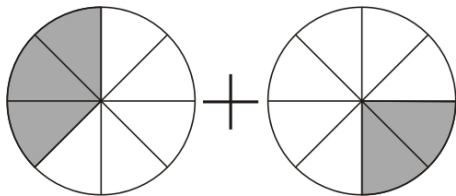
Exercicis de fraccions

IES Pons d'Icart

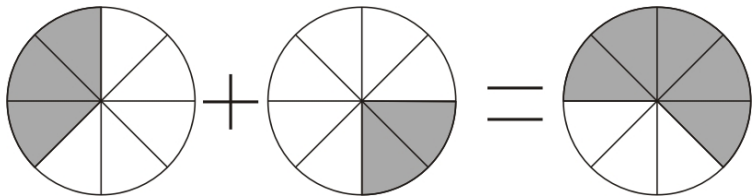
En les pantalles següents apareixeran operacions amb fraccions que haureu de simplificar amb paper i llapis.

Si premeu repetidament la tecla **AvPàg**, apareixeran les solucions en diverses etapes.

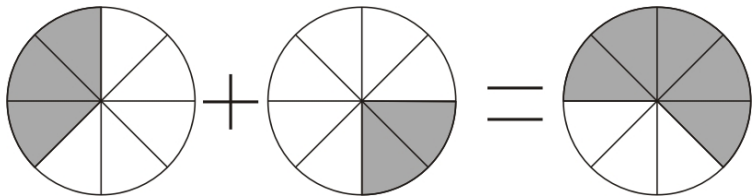
Exercici 1



Exercici 1

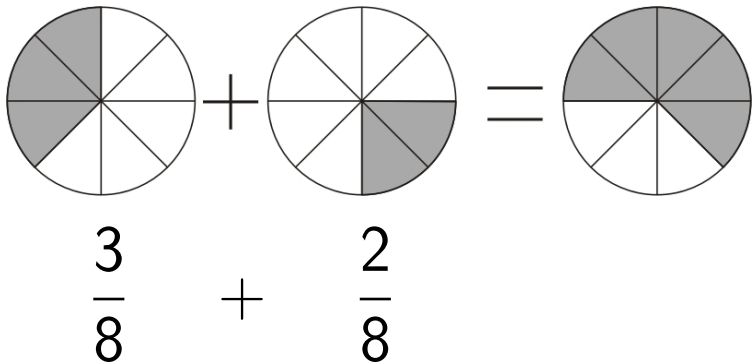


Exercici 1

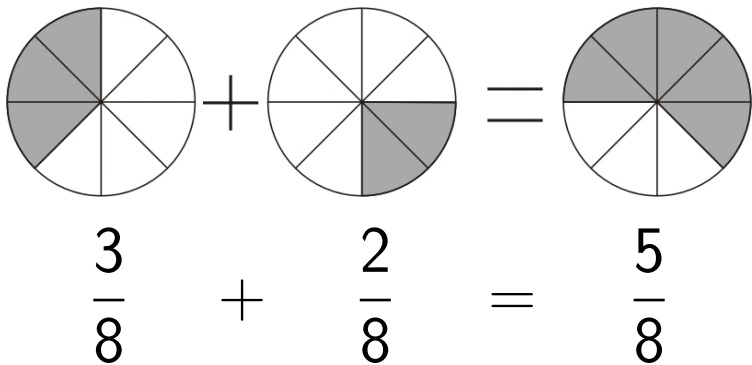


$\frac{3}{8} + \frac{2}{8} = \frac{5}{8}$

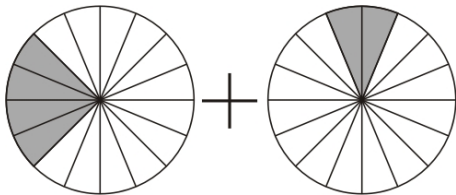
Exercici 1



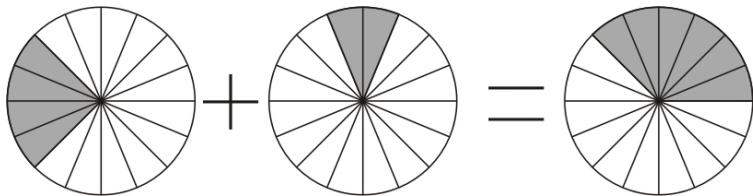
Exercici 1



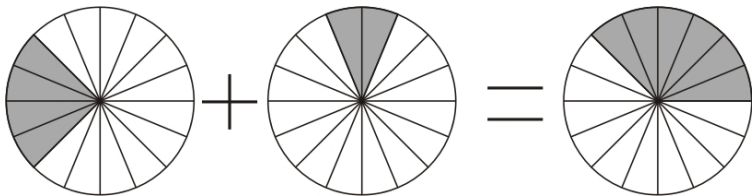
Exercici 2



Exercici 2

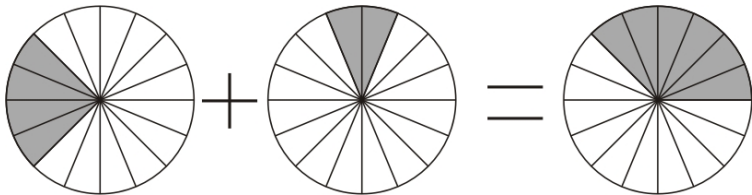


Exercici 2



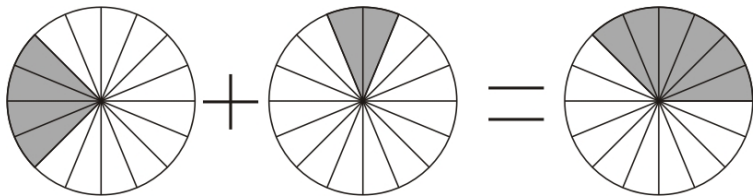
$$\frac{4}{16}$$

Exercici 2



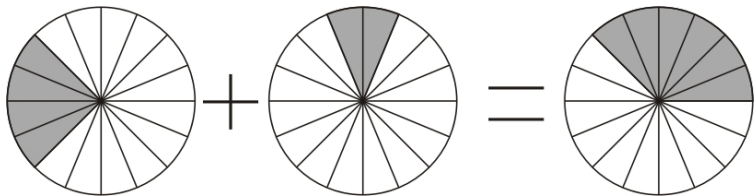
$$\frac{4}{16} + \frac{2}{16}$$

Exercici 2



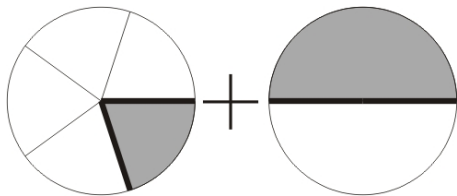
$$\frac{4}{16} + \frac{2}{16} = \frac{6}{16}$$

Exercici 2

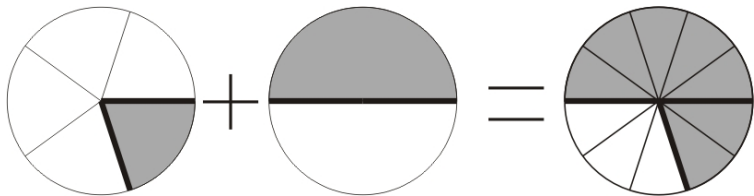


$$\frac{4}{16} + \frac{2}{16} = \frac{6}{16} = \frac{3}{8}$$

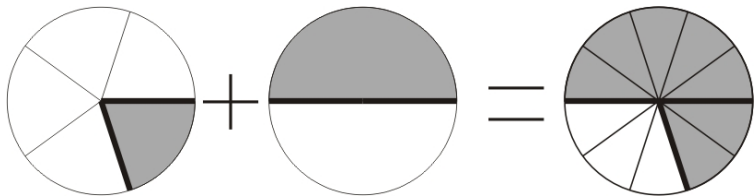
Exercici 3



Exercici 3

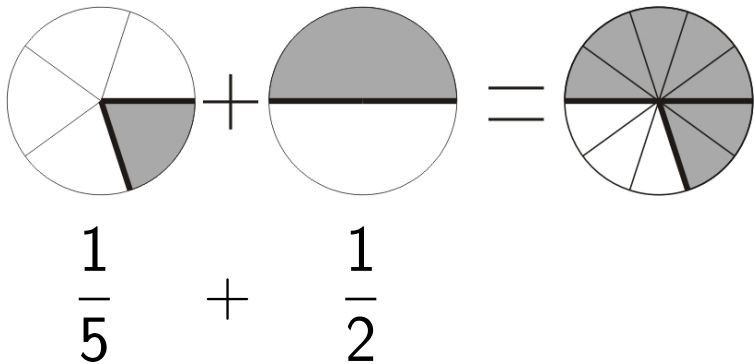


Exercici 3

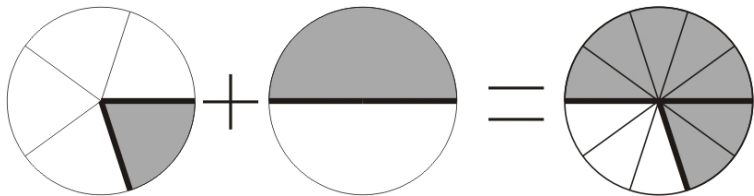


$\frac{1}{5}$

Exercici 3

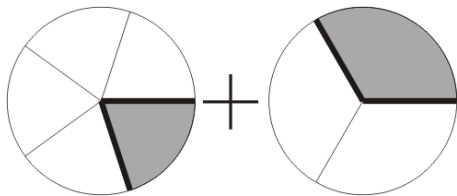


Exercici 3

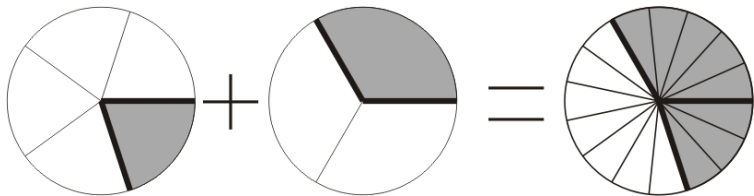


$$\frac{1}{5} + \frac{1}{2} = \frac{7}{10}$$

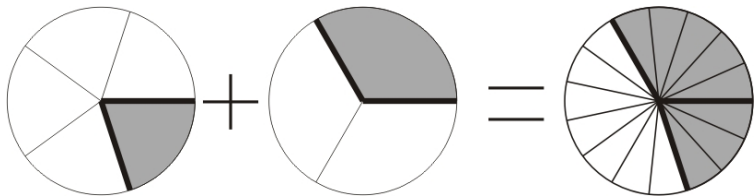
Exercici 4



Exercici 4

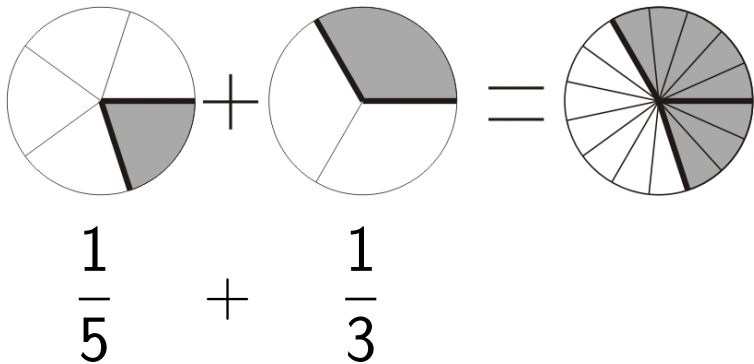


Exercici 4

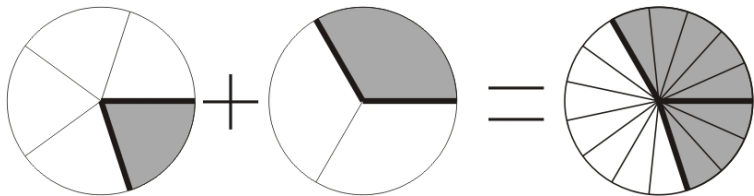


$\frac{1}{5}$

Exercici 4



Exercici 4



$$\frac{1}{5}$$

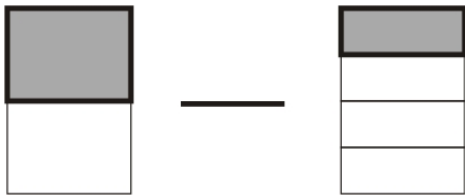
+

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

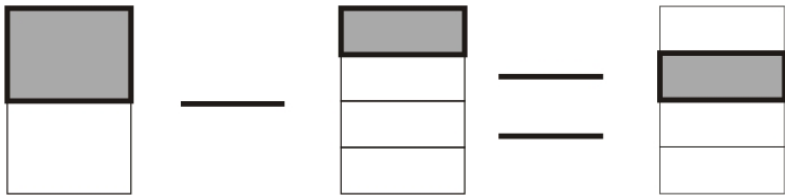
=

$$\frac{8}{15}$$

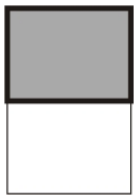
Exercici 5



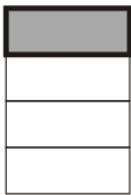
Exercici 5



Exercici 5

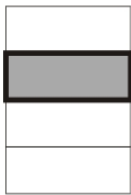


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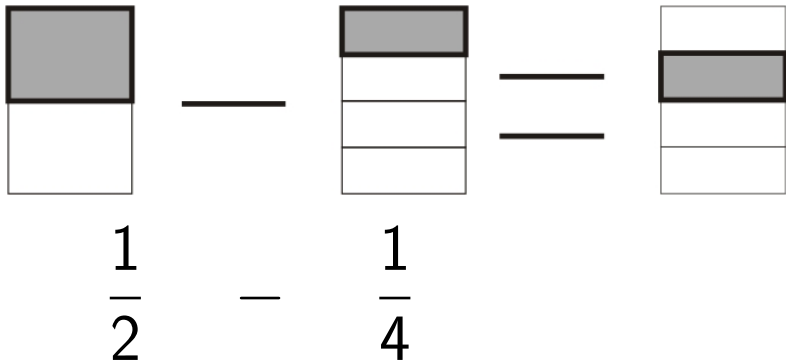
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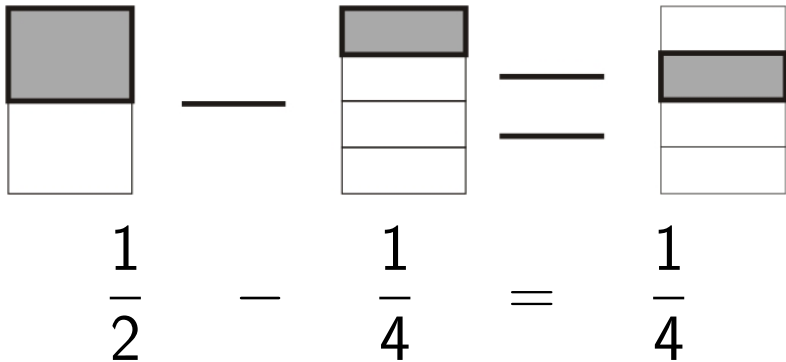


$\frac{1}{2}$

Exercici 5



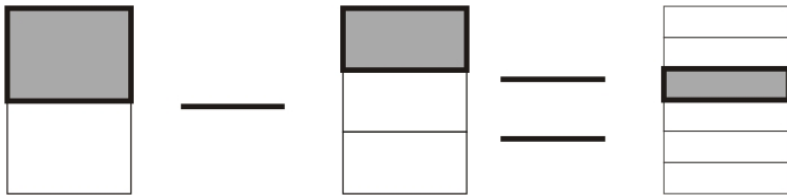
Exercici 5



Exercici 6



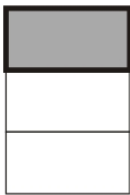
Exercici 6



Exercici 6

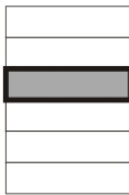


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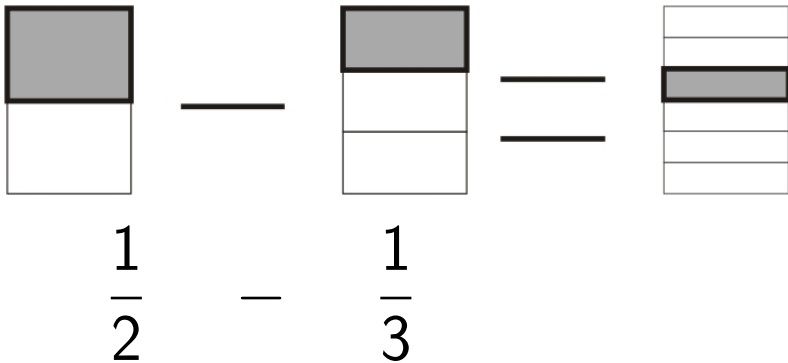
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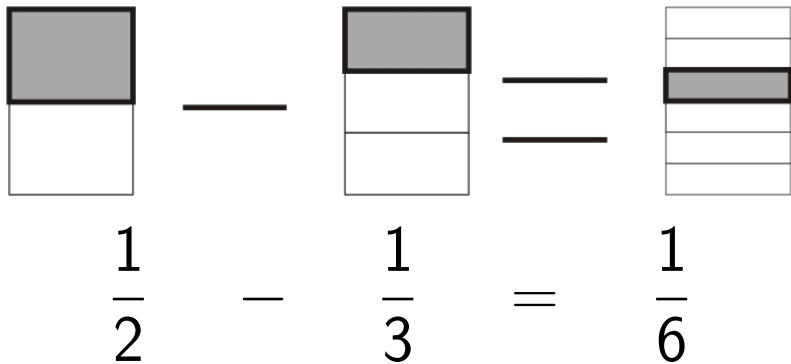


$\frac{1}{2}$

Exercici 6



Exercici 6



Exercici 7

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

Exercici 7

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

Exercici 7

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

Exercici 7

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

Exercici 8

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

Exercici 8

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

Exercici 8

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

Exercici 8

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

Exercici 9

$$\frac{3}{4} + \frac{2}{8} =$$

Exercici 9

$$\frac{3}{4} + \frac{2}{8} = \frac{6}{8}$$

Exercici 9

$$\frac{3}{4} + \frac{2}{8} = \frac{6}{8} + \frac{2}{8}$$

Exercici 9

$$\frac{3}{4} + \frac{2}{8} = \frac{6}{8} + \frac{2}{8} = \frac{8}{8}$$

Exercici 9

$$\frac{3}{4} + \frac{2}{8} = \frac{6}{8} + \frac{2}{8} = \frac{8}{8} = 1$$

Exercici 10

$$\frac{3}{4} - \frac{2}{8} =$$

Exercici 10

$$\frac{3}{4} - \frac{2}{8} = \frac{6}{8}$$

Exercici 10

$$\frac{3}{4} - \frac{2}{8} = \frac{6}{8} - \frac{2}{8}$$

Exercici 10

$$\frac{3}{4} - \frac{2}{8} = \frac{6}{8} - \frac{2}{8} = \frac{4}{8}$$

Exercici 10

$$\frac{3}{4} - \frac{2}{8} = \frac{6}{8} - \frac{2}{8} = \frac{4}{8} = \frac{1}{2}$$

Exercici 11

$$-2 + \frac{7}{2} =$$

Exercici 11

$$-2 + \frac{7}{2} = \frac{-4}{2}$$

Exercici 11

$$-2 + \frac{7}{2} = \frac{-4}{2} + \frac{7}{2}$$

Exercici 11

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

Exercici 12

$$\frac{16}{3} - 4 =$$

Exercici 12

$$\frac{16}{3} - 4 = \frac{16}{3}$$

Exercici 12

$$\frac{16}{3} - 4 = \frac{16}{3} - \frac{12}{3}$$

Exercici 12

$$\frac{16}{3} - 4 = \frac{16}{3} - \frac{12}{3} = \frac{4}{3}$$

Exercici 13

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

Exercici 13

$$-\frac{1}{5} - \frac{2}{3} = -\frac{3}{15}$$

Exercici 13

$$-\frac{1}{5} - \frac{2}{3} = -\frac{3}{15} - \frac{10}{15}$$

Exercici 13

$$-\frac{1}{5} - \frac{2}{3} = -\frac{3}{15} - \frac{10}{15} = \frac{-13}{15}$$

Exercici 14

$$\frac{19}{24} - \frac{27}{36} =$$

Exercici 14

$$\frac{19}{24} - \frac{27}{36} = \frac{57}{72}$$

Exercici 14

$$\frac{19}{24} - \frac{27}{36} = \frac{57}{72} - \frac{54}{72}$$

Exercici 14

$$\frac{19}{24} - \frac{27}{36} = \frac{57}{72} - \frac{54}{72} = \frac{3}{72}$$

Exercici 14

$$\frac{19}{24} - \frac{27}{36} = \frac{57}{72} - \frac{54}{72} = \frac{3}{72} = \frac{1}{24}$$

Exercici 15

$$-\frac{19}{4} + \left(-\frac{21}{8}\right) =$$

Exercici 15

$$-\frac{19}{4} + \left(-\frac{21}{8}\right) = -\frac{38}{8} - \frac{21}{8}$$

Exercici 15

$$-\frac{19}{4} + \left(-\frac{21}{8}\right) = -\frac{38}{8} - \frac{21}{8} = -\frac{59}{8}$$

Exercici 16

$$\frac{1}{3} - (-3) =$$

Exercici 16

$$\frac{1}{3} - (-3) = \frac{1}{3} + \frac{9}{3} =$$

Exercici 16

$$\frac{1}{3} - (-3) = \frac{1}{3} + \frac{9}{3} = \frac{10}{3}$$

Exercici 17

$$12 \cdot \frac{10}{17} =$$

Exercici 17

$$12 \cdot \frac{10}{17} = \frac{120}{17}$$

Exercici 17

$$12 \cdot \frac{10}{17} = \frac{120}{17}$$

Exercici 18

$$-\frac{9}{4} \cdot \left(-\frac{1}{2}\right) =$$

Exercici 18

$$-\frac{9}{4} \cdot \left(-\frac{1}{2}\right) = \frac{9}{4}$$

Exercici 18

$$-\frac{9}{4} \cdot \left(-\frac{1}{2}\right) = \frac{9}{8}$$

Exercici 19

$$-12 \cdot \left(-\frac{11}{4} \right) =$$

Exercici 19

$$-12 \cdot \left(-\frac{11}{4} \right) = +\frac{12 \cdot 11}{1}$$

Exercici 19

$$-12 \cdot \left(-\frac{11}{4} \right) = +\frac{12 \cdot 11}{4}$$

Exercici 19

$$-12 \cdot \left(-\frac{11}{4} \right) = +\frac{12 \cdot 11}{4} = 3 \cdot 11$$

Exercici 19

$$-12 \cdot \left(-\frac{11}{4} \right) = +\frac{12 \cdot 11}{4} = 3 \cdot 11 = 33$$

Exercici 20

$$\frac{14}{13} - (-2) =$$

Exercici 20

$$\frac{14}{13} - (-2) = \frac{14}{13} + \frac{26}{13}$$

Exercici 20

$$\frac{14}{13} - (-2) = \frac{14}{13} + \frac{26}{13} = \frac{40}{13}$$

Exercici 21

$$-1 \cdot \frac{17}{10} =$$

Exercici 21

$$-1 \cdot \frac{17}{10} = -\frac{17}{10}$$

Exercici 22

$$\frac{14}{17} : 1 =$$

Exercici 22

$$\frac{14}{17} : 1 = \frac{14}{17}$$

Exercici 23

$$\frac{11}{15} - \frac{11}{5} =$$

Exercici 23

$$\frac{11}{15} - \frac{11}{5} = \frac{11}{15}$$

Exercici 23

$$\frac{11}{15} - \frac{11}{5} = \frac{11}{15} - \frac{33}{15}$$

Exercici 23

$$\frac{11}{15} - \frac{11}{5} = \frac{11}{15} - \frac{33}{15} = -\frac{22}{15}$$

Exercici 24

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

Exercici 24

$$-\frac{3}{7} - \frac{7}{5} = -\frac{15}{35}$$

Exercici 24

$$-\frac{3}{7} - \frac{7}{5} = -\frac{15}{35} - \frac{49}{35}$$

Exercici 24

$$-\frac{3}{7} - \frac{7}{5} = -\frac{15}{35} - \frac{49}{35} = -\frac{64}{35}$$

Exercici 25

$$-\frac{2}{7} + \left(-\frac{6}{19}\right) =$$

Exercici 25

$$-\frac{2}{7} + \left(-\frac{6}{19}\right) = -\frac{38}{133}$$

Exercici 25

$$-\frac{2}{7} + \left(-\frac{6}{19}\right) = -\frac{38}{133} - \frac{42}{133}$$

Exercici 25

$$-\frac{2}{7} + \left(-\frac{6}{19}\right) = -\frac{38}{133} - \frac{42}{133} = -\frac{80}{133}$$

Exercici 26

$$-\frac{12}{11} : \left(-\frac{3}{2}\right) =$$

Exercici 26

$$-\frac{12}{11} : \left(-\frac{3}{2}\right) = \frac{12 \cdot 2}{11}$$

Exercici 26

$$-\frac{12}{11} : \left(-\frac{3}{2}\right) = \frac{12 \cdot 2}{11 \cdot 3}$$

Exercici 26

$$-\frac{12}{11} : \left(-\frac{3}{2}\right) = \frac{12 \cdot 2}{11 \cdot 3} = \frac{4 \cdot 2}{11}$$

Exercici 26

$$-\frac{12}{11} : \left(-\frac{3}{2}\right) = \frac{12 \cdot 2}{11 \cdot 3} = \frac{4 \cdot 2}{11} = \frac{8}{11}$$

Exercici 27

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

Exercici 27

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

Exercici 27

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

Exercici 27

$$-\frac{1}{3} + \frac{3}{5} = -\frac{5}{15} + \frac{9}{15} = \frac{4}{15}$$

Exercici 28

$$\frac{7}{8} + \left(\frac{5}{8} - \frac{3}{4} \right) =$$

Exercici 28

$$\frac{7}{8} + \left(\frac{5}{8} - \frac{3}{4} \right) = \frac{7}{8}$$

Exercici 28

$$\frac{7}{8} + \left(\frac{5}{8} - \frac{3}{4} \right) = \frac{7}{8} + \frac{5}{8}$$

Exercici 28

$$\frac{7}{8} + \left(\frac{5}{8} - \frac{3}{4} \right) = \frac{7}{8} + \frac{5}{8} - \frac{6}{8}$$

Exercici 28

$$\frac{7}{8} + \left(\frac{5}{8} - \frac{3}{4} \right) = \frac{7}{8} + \frac{5}{8} - \frac{6}{8} = \frac{6}{8}$$

Exercici 28

$$\frac{7}{8} + \left(\frac{5}{8} - \frac{3}{4} \right) = \frac{7}{8} + \frac{5}{8} - \frac{6}{8} = \frac{6}{8} = \frac{3}{4}$$

Exercici 29

$$\frac{1}{2} - \left(\frac{1}{3} - \frac{1}{6} \right) =$$

Exercici 29

$$\frac{1}{2} - \left(\frac{1}{3} - \frac{1}{6} \right) = \frac{3}{6}$$

Exercici 29

$$\frac{1}{2} - \left(\frac{1}{3} - \frac{1}{6} \right) = \frac{3}{6} - \frac{2}{6}$$

Exercici 29

$$\frac{1}{2} - \left(\frac{1}{3} - \frac{1}{6} \right) = \frac{3}{6} - \frac{2}{6} + \frac{1}{6}$$

Exercici 29

$$\frac{1}{2} - \left(\frac{1}{3} - \frac{1}{6} \right) = \frac{3}{6} - \frac{2}{6} + \frac{1}{6} = \frac{2}{6}$$

Exercici 29

$$\frac{1}{2} - \left(\frac{1}{3} - \frac{1}{6} \right) = \frac{3}{6} - \frac{2}{6} + \frac{1}{6} = \frac{2}{6} = \frac{1}{3}$$

Exercici 30

$$\frac{3}{2} - \left(\frac{1}{4} + \frac{1}{3} \right) =$$

Exercici 30

$$\frac{3}{2} - \left(\frac{1}{4} + \frac{1}{3} \right) = \frac{18}{12}$$

Exercici 30

$$\frac{3}{2} - \left(\frac{1}{4} + \frac{1}{3} \right) = \frac{18}{12} - \frac{3}{12}$$

Exercici 30

$$\frac{3}{2} - \left(\frac{1}{4} + \frac{1}{3} \right) = \frac{18}{12} - \frac{3}{12} - \frac{4}{12}$$

Exercici 30

$$\frac{3}{2} - \left(\frac{1}{4} + \frac{1}{3} \right) = \frac{18}{12} - \frac{3}{12} - \frac{4}{12} = \frac{11}{12}$$

Exercici 31

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

Exercici 31

$$-\left(\frac{2}{3} + \frac{3}{2}\right) + \frac{4}{5} = -\frac{20}{30}$$

Exercici 31

$$-\left(\frac{2}{3} + \frac{3}{2}\right) + \frac{4}{5} = -\frac{20}{30} - \frac{45}{30}$$

Exercici 31

$$-\left(\frac{2}{3} + \frac{3}{2}\right) + \frac{4}{5} = -\frac{20}{30} - \frac{45}{30} + \frac{24}{30}$$

Exercici 31

$$-\left(\frac{2}{3} + \frac{3}{2}\right) + \frac{4}{5} = -\frac{20}{30} - \frac{45}{30} + \frac{24}{30} = -\frac{41}{30}$$

Exercici 32

$$\frac{5}{3} + \left(2 - \left(\frac{1}{3} + 3 \right) \right) =$$

Exercici 32

$$\frac{5}{3} + \left(2 - \left(\frac{1}{3} + 3 \right) \right) = \frac{5}{3}$$

Exercici 32

$$\frac{5}{3} + \left(2 - \left(\frac{1}{3} + 3 \right) \right) = \frac{5}{3} + \frac{6}{3}$$

Exercici 32

$$\frac{5}{3} + \left(2 - \left(\frac{1}{3} + 3 \right) \right) = \frac{5}{3} + \frac{6}{3} - \frac{10}{3}$$

Exercici 32

$$\frac{5}{3} + \left(2 - \left(\frac{1}{3} + 3 \right) \right) = \frac{5}{3} + \frac{6}{3} - \frac{10}{3} = \frac{1}{3}$$

Exercici 33

$$3 - \left(\frac{4}{3} + \left(\frac{1}{2} - \frac{1}{3} \right) \right) =$$

Exercici 33

$$3 - \left(\frac{4}{3} + \left(\frac{1}{2} - \frac{1}{3} \right) \right) = \frac{18}{6}$$

Exercici 33

$$3 - \left(\frac{4}{3} + \left(\frac{1}{2} - \frac{1}{3} \right) \right) = \frac{18}{6} - \frac{8}{6}$$

Exercici 33

$$3 - \left(\frac{4}{3} + \left(\frac{1}{2} - \frac{1}{3} \right) \right) = \frac{18}{6} - \frac{8}{6} - \frac{1}{6}$$

Exercici 33

$$\begin{aligned} 3 - \left(\frac{4}{3} + \left(\frac{1}{2} - \frac{1}{3} \right) \right) &= \frac{18}{6} - \frac{8}{6} - \frac{1}{6} \\ &= \frac{9}{6} \end{aligned}$$

Exercici 33

$$\begin{aligned} 3 - \left(\frac{4}{3} + \left(\frac{1}{2} - \frac{1}{3} \right) \right) &= \frac{18}{6} - \frac{8}{6} - \frac{1}{6} \\ &= \frac{9}{6} = \frac{3}{2} \end{aligned}$$

Exercici 34

$$\frac{3}{4} \cdot \frac{2}{5} =$$

Exercici 34

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

Exercici 34

$$\frac{3}{4} \cdot \frac{2}{5} = \frac{3 \cdot 1}{2 \cdot 5} = \frac{3}{10}$$

Exercici 35

$$\frac{5}{21} \cdot \frac{14}{10} =$$

Exercici 35

$$\frac{5}{21} \cdot \frac{14}{10} = \frac{5 \cdot 2}{3 \cdot 10}$$

Exercici 35

$$\frac{5}{21} \cdot \frac{14}{10} = \frac{5 \cdot 2}{3 \cdot 10} = \frac{1}{3}$$

Exercici 36

$$\frac{16}{75} \cdot \frac{45}{24} =$$

Exercici 36

$$\frac{16}{75} \cdot \frac{45}{24} = \frac{4 \cdot 9}{15 \cdot 6}$$

Exercici 36

$$\frac{16}{75} \cdot \frac{45}{24} = \frac{4 \cdot 9}{15 \cdot 6} = \frac{2 \cdot 3}{15}$$

Exercici 36

$$\frac{16}{75} \cdot \frac{45}{24} = \frac{4 \cdot 9}{15 \cdot 6} = \frac{2 \cdot 3}{15} = \frac{2}{5}$$

Exercici 37

$$3 + \frac{\frac{4}{3}}{\frac{1}{9}} =$$

Exercici 37

$$3 + \frac{\frac{4}{3}}{\frac{1}{9}} = 3$$

Exercici 37

$$3 + \frac{4}{\frac{3}{\frac{1}{9}}} = 3 + \frac{4 \cdot 9}{1 \cdot 3}$$

Exercici 37

$$3 + \frac{4}{\frac{3}{1}} = 3 + \frac{4 \cdot 9}{1 \cdot 3} = 3$$

Exercici 37

$$3 + \frac{4}{\frac{3}{1}} = 3 + \frac{4 \cdot 9}{1 \cdot 3} = 3 + 4 \cdot 3$$

Exercici 37

$$3 + \frac{4}{\frac{3}{\frac{1}{9}}} = 3 + \frac{4 \cdot 9}{1 \cdot 3} = 3 + 4 \cdot 3 = 15$$

Exercici 38

$$1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1}}} =$$

Exercici 38

$$1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1}}} = 1$$

Exercici 38

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

Exercici 38

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

Exercici 38

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

Exercici 38

$$\begin{aligned} 1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1}}} &= 1 + \frac{1}{1 + \frac{1}{2}} = 1 + \frac{1}{\frac{3}{2}} \\ &= 1 + \frac{2}{3} \end{aligned}$$

Exercici 38

$$\begin{aligned} 1 + \frac{1}{1 + \frac{1}{1 + \frac{1}{1}}} &= 1 + \frac{1}{1 + \frac{1}{2}} = 1 + \frac{1}{\frac{3}{2}} \\ &= 1 + \frac{2}{3} = \frac{5}{3} \end{aligned}$$

Exercici 39

$$\frac{\frac{3}{4} \left(\frac{5}{2} - 1 \right)}{1 - \frac{5}{8}} =$$

Exercici 39

$$\frac{\frac{3}{4} \left(\frac{5}{2} - 1 \right)}{1 - \frac{5}{8}} = \frac{\frac{3}{4} \cdot \frac{3}{2}}$$

Exercici 39

$$\frac{\frac{3}{4} \left(\frac{5}{2} - 1 \right)}{1 - \frac{5}{8}} = \frac{\frac{3}{4} \cdot \frac{3}{2}}{\frac{3}{8}}$$

Exercici 39

$$\frac{\frac{3}{4} \left(\frac{5}{2} - 1 \right)}{1 - \frac{5}{8}} = \frac{\frac{3}{4} \cdot \frac{3}{2}}{\frac{3}{8}} = \frac{3 \cdot 3 \cdot 8}{8}$$

Exercici 39

$$\frac{\frac{3}{4} \left(\frac{5}{2} - 1 \right)}{1 - \frac{5}{8}} = \frac{\frac{3}{4} \cdot \frac{3}{2}}{\frac{3}{8}} = \frac{3 \cdot 3 \cdot 8}{4 \cdot 2 \cdot 3}$$

Exercici 39

$$\frac{\frac{3}{4} \left(\frac{5}{2} - 1 \right)}{1 - \frac{5}{8}} = \frac{\frac{3}{4} \cdot \frac{3}{2}}{\frac{3}{8}} = \frac{3 \cdot 3 \cdot 8}{4 \cdot 2 \cdot 3} = 3$$

Exercici 40

$$\frac{\frac{25}{18} \cdot \frac{42}{10} - \frac{5}{10}}{3 - 2 \cdot \frac{7}{84}} =$$

Exercici 40

$$\frac{\frac{25}{18} \cdot \frac{42}{10} - \frac{5}{10}}{3 - 2 \cdot \frac{7}{84}} = \frac{5 \cdot 7}{3 \cdot 2}$$

Exercici 40

$$\frac{\frac{25}{18} \cdot \frac{42}{10} - \frac{5}{10}}{3 - 2 \cdot \frac{7}{84}} = \frac{\frac{5 \cdot 7}{3 \cdot 2} - \frac{1}{2}}$$

Exercici 40

$$\frac{\frac{25}{18} \cdot \frac{42}{10} - \frac{5}{10}}{3 - 2 \cdot \frac{7}{84}} = \frac{\frac{5 \cdot 7}{3 \cdot 2} - \frac{1}{2}}{3 - \frac{1}{6}}$$

Exercici 40

$$\frac{\frac{25}{18} \cdot \frac{42}{10} - \frac{5}{10}}{3 - 2 \cdot \frac{7}{84}} = \frac{\frac{5 \cdot 7}{3 \cdot 2} - \frac{1}{2}}{3 - \frac{1}{6}} = \frac{\frac{32}{6}}$$

Exercici 40

$$\frac{\frac{25}{18} \cdot \frac{42}{10} - \frac{5}{10}}{3 - 2 \cdot \frac{7}{84}} = \frac{\frac{5 \cdot 7}{3 \cdot 2} - \frac{1}{2}}{3 - \frac{1}{6}} = \frac{\frac{32}{6}}{\frac{17}{6}}$$

Exercici 40

$$\frac{\frac{25}{18} \cdot \frac{42}{10} - \frac{5}{10}}{3 - 2 \cdot \frac{7}{84}} = \frac{\frac{5 \cdot 7}{3 \cdot 2} - \frac{1}{2}}{3 - \frac{1}{6}} = \frac{\frac{32}{6}}{\frac{17}{6}} = \frac{32}{17}$$