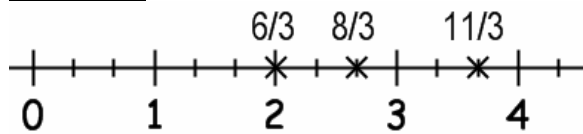


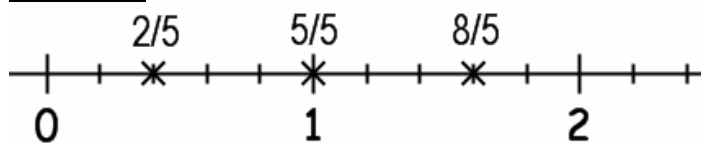
Corrigé des exercices proposés dans la « checklist » - fractions

Livre 6 – Chapitre 5

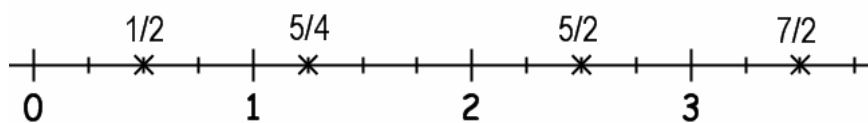
Exercice 19



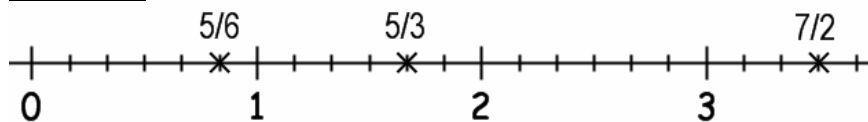
Exercice 20



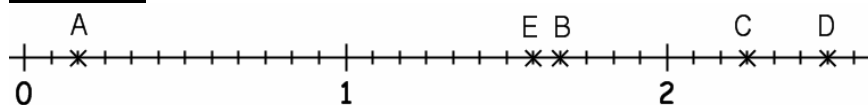
Exercice 21



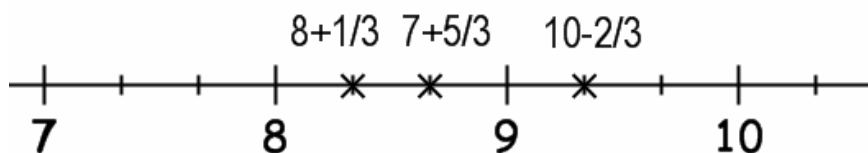
Exercice 22



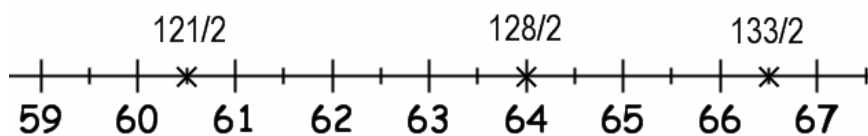
Exercice 23



Exercice 24



Exercice 25



Exercice 28

a. $18 \cdot \frac{2}{3} = \frac{18 \cdot 2}{3} = \frac{36}{3} = 12$

b. $\frac{\cancel{28}^4}{\cancel{7}_1} \cdot 5 = 20$

c. $6 \cdot \frac{13}{100} = \frac{\cancel{6}^3 \cdot 13}{\cancel{100}_{50}} = \frac{39}{50}$

Exercice 29

a. $3,5 \cdot \frac{9}{5} = \frac{\cancel{3,5}^{0,7} \cdot 9}{\cancel{5}_1} = 6,3$

b. $\frac{\cancel{8}^1}{\cancel{48}_6} \cdot 6 = \frac{1 \cdot 6}{6} = 1$

c. $0,01 \cdot \frac{9}{10} = 0,01 \cdot 0,9 = 0,009$

Exercice 30

a. $120 \cdot \frac{5}{6} = \frac{\cancel{120}^{20} \cdot 5}{\cancel{6}_1} = 100$

b. $\frac{7}{2} \cdot 2,8 = \frac{7 \cdot \cancel{2,8}^{14}}{\cancel{2}_1} = 7 \cdot 1,4 = 6,8$

c. $11 \cdot \frac{5}{7} = \frac{11 \cdot 5}{7} = \frac{55}{7}$

Livre 5 – Chapitre 2

Exercice 8

$$a. \frac{276}{252} = \frac{138}{126} = \frac{69}{63} = \frac{23}{21}$$

$$b. \frac{105}{30} = \frac{21}{6} = \frac{7}{2}$$

$$c. \frac{108}{162} = \frac{54}{81} = \frac{6}{9} = \frac{2}{3}$$

Exercice 26

$$a. \frac{7}{6} = \frac{21}{18} \text{ donc } \frac{7}{6} < \frac{23}{18}$$

$$b. \frac{9}{7} = \frac{48}{42} \text{ donc } \frac{49}{42} > \frac{8}{7}$$

$$c. \frac{7}{4} = \frac{56}{32} \text{ donc } \frac{55}{32} < \frac{7}{4}$$

Exercice 34

$$1. 1 = \frac{4}{4} = \frac{5}{5} = \frac{9}{9}$$

$$2.a. 1 + \frac{2}{5} = \frac{5}{5} + \frac{2}{5} = \frac{7}{5}$$

$$b. 1 - \frac{1}{4} = \frac{4}{4} - \frac{1}{4} = \frac{3}{4}$$

$$c. 1 + \frac{7}{9} = \frac{9}{9} + \frac{7}{9} = \frac{16}{9}$$

Exercice 35

$$a. 2 + \frac{1}{3} = \frac{6}{3} + \frac{1}{3} = \frac{7}{3}$$

$$b. 5 + \frac{3}{4} = \frac{20}{4} + \frac{3}{4} = \frac{23}{4}$$

$$c. 7 - \frac{2}{3} = \frac{21}{3} - \frac{2}{3} = \frac{19}{3}$$

Exercice 39

$$a. \frac{1}{2} + \frac{9}{8} = \frac{4}{8} + \frac{9}{8} = \frac{13}{8}$$

$$b. \frac{5}{3} - \frac{5}{6} = \frac{10}{6} - \frac{5}{6} = \frac{5}{6}$$

$$c. \frac{3}{5} + \frac{4}{55} = \frac{33}{55} + \frac{4}{55} = \frac{37}{55}$$

Exercice 40

$$a. \frac{3}{7} - \frac{1}{21} = \frac{9}{21} - \frac{1}{21} = \frac{8}{21}$$

$$b. \frac{7}{2} - \frac{33}{56} = \frac{196}{56} - \frac{33}{56} = \frac{163}{56}$$

$$c. \frac{2}{9} + \frac{39}{72} = \frac{16}{72} + \frac{39}{72} = \frac{55}{72}$$

Exercice 52

$$a. \frac{3}{20} \cdot \frac{5}{21} = \frac{\overset{1}{\cancel{3}} \cdot \overset{1}{\cancel{5}}}{\underset{4}{20} \cdot \underset{7}{21}} = \frac{1 \cdot 1}{4 \cdot 7} = \frac{1}{28}$$

$$b. \frac{12}{7} \cdot \frac{14}{15} = \frac{\overset{4}{\cancel{12}} \cdot \overset{2}{\cancel{14}}}{\underset{1}{7} \cdot \underset{5}{15}} = \frac{4 \cdot 2}{1 \cdot 5} = \frac{8}{5}$$

$$c. 105 \cdot \frac{5}{14} = \frac{\overset{15}{\cancel{105}} \cdot \overset{1}{\cancel{5}}}{\underset{2}{\cancel{14}}} = \frac{15 \cdot 5}{2} = \frac{75}{2}$$

Exercice 53

$$a. \frac{98}{350} \cdot \frac{35}{49} = \frac{\overset{2}{\cancel{98}} \cdot \overset{1}{\cancel{35}}}{\underset{10}{350} \cdot \underset{1}{49}} = \frac{\overset{1}{\cancel{2}} \cdot 1}{\underset{5}{10} \cdot 1} = \frac{1}{5}$$

$$b. \frac{12}{9} \cdot \frac{9}{12} = 1$$

$$c. \frac{8}{51} \cdot 17 = \frac{8 \cdot 17}{51} = \frac{8 \cdot \overset{1}{\cancel{17}}}{\underset{3}{51}} = \frac{8}{3}$$

Exercice 56

$$a. \frac{15}{6} \cdot \frac{14}{40} \cdot \frac{24}{21} = \frac{\overset{5}{\cancel{15}} \cdot \overset{2}{\cancel{14}} \cdot \overset{3}{\cancel{24}}}{\underset{2}{6} \cdot \underset{5}{40} \cdot \underset{3}{21}} = \frac{5 \cdot 2 \cdot 3}{2 \cdot 5 \cdot 3} = 1$$

$$b. \frac{21}{35} \cdot 20 \cdot \frac{1}{6} = \frac{\overset{3}{\cancel{21}} \cdot \overset{10}{\cancel{20}}}{\underset{7}{35} \cdot \underset{3}{6}} = \frac{\overset{1}{\cancel{3}} \cdot 10}{\underset{1}{7} \cdot \underset{3}{3}} = \frac{10}{7}$$