

FEUILLE DE RÉVISIONS N° 3

Chapitre n° 3 (p. 30 du TD)

Exercice 1

$$A = 12 + 4 \times 7 = 12 + 28 = \mathbf{30.}$$

$$B = 5 \times 8 - 2 \times 7$$

$$B = 40 - 2 \times 7$$

$$B = 40 - 14$$

$$\mathbf{B = 26.}$$

$$C = 9 - \frac{6}{3}$$

$$C = \frac{9 \times 3}{1 \times 3} - \frac{6}{3}$$

$$C = \frac{27}{3} - \frac{6}{3}$$

$$C = \frac{27 - 6}{3}$$

$$\mathbf{C = \frac{21}{3} = 7.}$$

$$D = \frac{2 + 8}{6 - 1} = \frac{10}{5} = \mathbf{2.}$$

$$E = 5 \times (2 \times (9 - 3 \times 3))$$

$$E = 5 \times (2 \times (9 - 9))$$

$$E = 5 \times (2 \times 0)$$

$$E = 5 \times 0$$

$$\mathbf{E = 0.}$$

$$F = \frac{12}{4} + \frac{18}{6} = 3 + 3 = \mathbf{6.}$$

$$G = 8 \div 4 \times 7 \times 2$$

$$G = 2 \times 7 \times 2$$

$$G = 14 \times 2$$

$$\mathbf{G = 28.}$$

$$H = 2 \times (8 - 2 + 4)$$

$$H = 2 \times (6 + 4)$$

$$H = 2 \times 10$$

$$\mathbf{H = 20.}$$

$$I = 5 - 2 + 3 = 3 + 3 = \mathbf{6.}$$

$$J = (9 - 7) \times (2 + 3 \times 7)$$

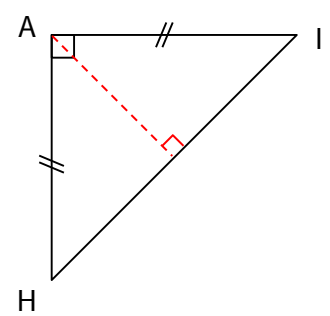
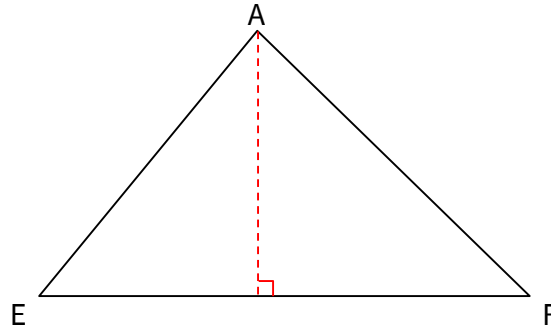
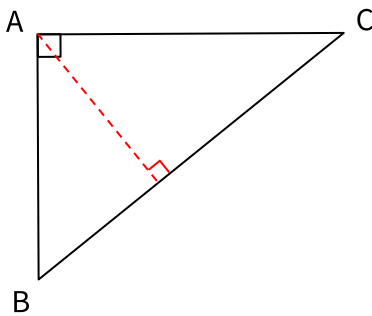
$$J = 2 \times (2 + 3 \times 7)$$

$$J = 2 \times (2 + 21)$$

$$J = 2 \times 23$$

$$\mathbf{J = 46.}$$

Exercice 2



Exercice 3

$$\frac{1}{3} = \frac{1 \times 5}{3 \times 5} = \frac{\mathbf{5}}{\mathbf{15}}$$

$$\frac{7}{5} = \frac{7 \times 3}{5 \times 3} = \frac{\mathbf{21}}{\mathbf{15}}$$

$$\frac{2}{10} = \frac{2 \times 8}{10 \times 8} = \frac{\mathbf{16}}{\mathbf{80}}$$

$$\frac{5}{8} = \frac{5 \times 10}{8 \times 10} = \frac{\mathbf{50}}{\mathbf{80}}$$

$$\frac{4}{3} = \frac{4 \times 6}{3 \times 6} = \frac{\mathbf{24}}{\mathbf{18}}$$

$$\frac{5}{6} = \frac{5 \times 3}{6 \times 3} = \frac{\mathbf{15}}{\mathbf{18}}$$

$$\frac{12}{9} = \frac{12 \times 7}{9 \times 7} = \frac{\mathbf{84}}{\mathbf{63}}$$

$$\frac{11}{7} = \frac{11 \times 9}{7 \times 9} = \frac{\mathbf{99}}{\mathbf{63}}$$

$$\frac{8}{1} = \frac{8 \times 4}{1 \times 4} = \frac{\mathbf{32}}{\mathbf{4}}$$

$$\frac{7}{4} = \frac{7 \times 1}{4 \times 1} = \frac{\mathbf{7}}{\mathbf{4}}$$

Exercice 4

$$A = 8 \times \frac{2}{3} = \frac{16}{3}$$

$$B = \frac{6}{5} \times 3 = \frac{18}{5}$$

$$C = 5 \times \frac{1}{5} = \frac{5}{5} = 1$$

$$D = \frac{9}{2} \times 7 = \frac{63}{2}$$

$$E = 4 \times \frac{10}{4} = \frac{40}{4} = 10$$

Exercice 5

$$a) \frac{30}{18} = \frac{15 \times 2}{9 \times 2} = \frac{15}{9}$$

$$b) \frac{14}{18} = \frac{7 \times 2}{8 \times 2} = \frac{7}{8}$$

$$c) \frac{300}{400} = \frac{3 \times 100}{4 \times 100} = \frac{3}{4}$$

$$d) \frac{21}{70} = \frac{3 \times 7}{10 \times 7} = \frac{3}{10}$$

$$e) \frac{5}{40} = \frac{1 \times 5}{8 \times 5} = \frac{1}{8}$$

Exercice 6

1. Il y a $\frac{3}{4} \times 10000 = \frac{30000}{4} = 7500$ spectateurs présents.

2. Actuellement, Anne-Marie dispose de $\frac{4}{5} \times 2700 = \frac{10800}{5} = 2160$ L dans sa citerne.

En trois semaines, elle aura besoin de $3 \times 7 \times 90 = 21 \times 90 = 1890$ L.

On en déduit qu'elle aura assez.

3. Calculs : $\frac{2}{6} \times 24 = \frac{48}{6} = 8$; $\frac{3}{8} \times 24 = \frac{72}{8} = 9$ et $24 - 8 - 9 = 16 - 9 = 7$.

Eloi a 8 billes, Farid en a 9 et il reste 7 billes dans le sac.