

CORRIGÉ

p. 113 #1

BORDA

a) Lecture = $(17 \times 3) + (15 \times 2) + (12 \times 1) + (8 \times 2) = 109$

Marche = $(17 \times 2) + (15 \times 3) + (12 \times 3) + (8 \times 1) = \boxed{123}$

Cinéma = $(17 \times 1) + (15 \times 1) + (12 \times 2) + (8 \times 3) = 80$

b) Soccer meilleur que Tennis : $20 + 14 = 34$
Tennis Soccer : $11 + 9 = 20$ } Soccer

Soccer meilleur que Hockey : $20 + 14 + 9 = 43$
Hockey Soccer : $11 = 11$ } Soccer

Gagnant = Soccer

c) Votes de 1^{er} choix

Fruits = 24

Jello = 27

Yogourt = ~~18~~

donc Fruits = $24 + 10 = 34$

Jello = $27 + 8 = 35$

Gagnant = Jello

P.113 #2

al Condorcet

- Spectacle meilleur que P.A = $27+15 = 42$
P.A Spectacle = $18+18+10 = 46$ } P.A.
- Spectacle meilleur que cinéma = $27+15 = 42$
Cinéma Spectacle = $18+18+12+10 = 58$ } Cinéma
- Spectacle meilleur que musée = $27+18+18 = 63$
musée Spectacle = $15+12+10 = 37$ } Spectacle
- Cinéma meilleur que musée = $27+18+18 = 63$
musée cinéma = $15+12+10 = 37$ } Cinéma
- Cinéma meilleur que P.A = $27+18+12 = 57$
P.A cinéma = $18+15+10 = 43$ } Cinéma

Gagnant: cinéma

b) Borda

$$\text{Spectacle} = (27 \times 4) + (18 \times 2) + (18 \times 2) + (15 \times 3) + (12 \times 2) + (10 \times 1) = 259$$

$$\text{Cinéma} = (27 \times 3) + (18 \times 3) + (18 \times 4) + (15 \times 1) + (12 \times 3) + (10 \times 2) = 278$$

$$\text{Musée} = (27 \times 2) + (18 \times 1) + (18 \times 1) + (15 \times 4) + (12 \times 4) + (10 \times 3) = 228$$

$$\text{P.A.} = (27 \times 1) + (18 \times 4) + (18 \times 3) + (15 \times 2) + (12 \times 1) + (10 \times 4) = 235$$

Gagnant = Cinéma

P.114 #4

a) Bruins = $9 + 7 = 16 / 35 = 45,7$
Penguins = 7
Hurricanes = 6
Canadiens 6

Gagnant = ~~Ø~~

b) Les Bruins

c) Bruins = $(9 \times 4) + (7 \times 1) + (7 \times 4) + (6 \times 1) + (6 \times 1) = 83$
Penguins = $(9 \times 2) + (7 \times 4) + (7 \times 1) + (6 \times 2) + (6 \times 3) = 83$
Hurricanes = $(9 \times 3) + (7 \times 2) + (7 \times 2) + (6 \times 4) + (6 \times 2) = 91$
Canadiens = $(9 \times 1) + (7 \times 3) + (7 \times 3) + (6 \times 3) + (6 \times 4) = 93$

Gagnant = Canadiens

p. 115 #6

$$\text{Angello} = 120$$

$$\text{Jeanne} = 108$$

$$\text{Julie} = 122$$

$$\text{Marcel} = \cancel{50}$$

Done

$$\text{Julie} = 122$$

$$\text{Jeanne} = 108$$

$$\text{Angello} = 120 + 50 = 170$$

Julie et
Angello

p. 115 #7

a) 1) Libéral

2) Libéral

b) 1) Non

2) oui car $\frac{66}{125} = 52,8\%$

p.117 #9

$$a) A = (28 \times 2) + (20 \times 1) + (16 \times 3) + (12 \times 1) = 136$$

$$B = (28 \times 3) + (20 \times 4) + (16 \times 1) + (12 \times 3) = 216$$

$$C = (28 \times 4) + (20 \times 3) + (16 \times 2) + (12 \times 2) = 228$$

$$D = (28 \times 1) + (20 \times 2) + (16 \times 4) + (12 \times 4) = 180$$

Gagnant est C

$$b) A = (23 \times 3) + (17 \times 1) + (10 \times 2) + (8 \times 1) + (2 \times 2) = 118$$

$$B = (23 \times 2) + (17 \times 3) + (10 \times 1) + (8 \times 2) + (2 \times 3) = 129$$

$$C = (23 \times 1) + (17 \times 2) + (10 \times 3) + (8 \times 3) + (2 \times 1) = 113$$

Gagnant est B

p. 125 #6

a) 1) c

$$2) A = (100 \times 3) + (60 \times 2) + (57 \times 1) + (48 \times 2) + (20 \times 1) = 593$$

$$B = (100 \times 2) + (60 \times 3) + (57 \times 2) + (48 \times 1) + (20 \times 3) = 602$$

$$C = (100 \times 1) + (60 \times 1) + (57 \times 3) + (48 \times 3) + (20 \times 2) = 515$$

Le gagnant est B

$$3) \left. \begin{array}{l} A \text{ meilleur que } B = 100 + 48 = 148 \\ B \dots \dots \dots A = 60 + 57 + 20 = 137 \end{array} \right\} \textcircled{A}$$

$$\left. \begin{array}{l} A \text{ meilleur que } C = 100 + 60 = 160 \\ C \dots \dots \dots A = 57 + 48 + 20 = 125 \end{array} \right\} \textcircled{A}$$

Gagnant est \textcircled{A}

b) Pour ne pas manipuler les résultats en notre faveur.

p. 127

#10

a) 1) $c = 4800$

$A = 3800 + 4200$ donc A gagne

2) $D = 2200$

$A = 1200 + 1100$ donc A gagne

b)

$A = 5400$

$B = \cancel{1100}$

$c = 4800$

$D = 6000$

Donc $D = 6000$

$A = \cancel{5400}$

$c = 4800 + 1100 = 5900$

Donc $D = 6000$

$c = 5900 + 5400 = 11300$

C est gagnant.