

1) Il y a 28 élèves dans la classe. La Médiane de 28 = 14

$$\text{Donc } n_e = 12$$

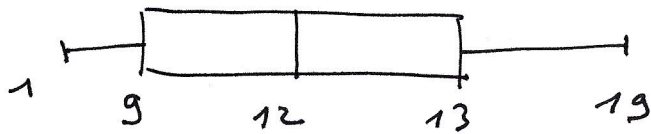
$$Q_1 \text{ quart de } 28 = 7$$

$$\text{Donc } Q_1 = 9$$

$$Q_3 \text{ 3 quart de } 28 = 21$$

$$\text{Donc } Q_3 = 13$$

2) Diagramme en boîte



$$\bar{x} = \frac{1+3+4+5+7+7+9+10+10+10+10+11+11+12+12+12+12+12+13+13+13+13+14+15+15+16+18+19}{28}$$

$$= 10,96 \approx 11,0$$

$$V(x) = \frac{(1-11)^2 + (3-11)^2 + (4-11)^2 + (5-11)^2 + 2 \times (7-11)^2 + (9-11)^2 + 4(10-11)^2 + 2(12-11)^2 + 3(12-11)^2 + 4(13-11)^2 + (14-11)^2 + 2(15-11)^2 + (16-11)^2 + (18-11)^2 + (19-11)^2}{28}$$

$$= 17,46$$

28

$$\sigma(x) = \sqrt{V(x)} = \underline{\underline{4,2}}$$