Answers :

(1) (a) Since there are 20 boys (even number), the positions of median are 10th and 11th .

The mass for 10th and 11th position are 57 kg and 58 kg respectively.

Median mass $= \frac{57+58}{2} = 57.5$ kg

Modal mass$= 56$ kg (most number of boys)

(b) There are 12 boys with mass less than 60 kg.

$\therefore$ $P(mass\ of\ both\ boys\ less\ than\ 60\ kg) = \frac{12}{20} \cdot \frac{11}{19} = \frac{33}{95}$

(c)