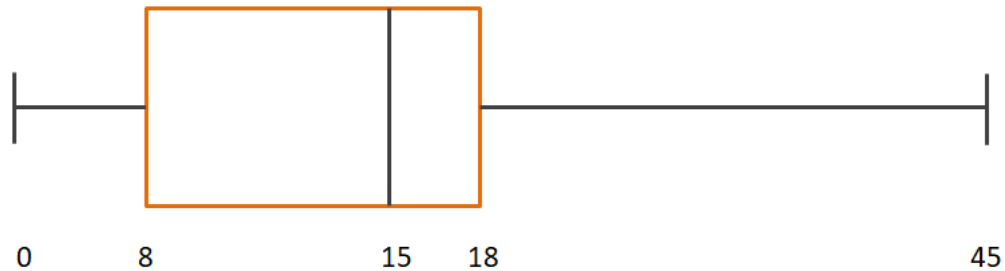


1. The following box and whisker plot shows the number of text messages sent by Kevin and his co-workers in a typical work day.



- (a) Find the value of the interquartile range (2 marks)
- (b) One worker sent p messages, where $p > 18$. Given p is an outlier, find the least value of p . (4 marks)

Mark scheme:

(a) $Q_3 - Q_1 = 18 - 8 = 10$ (M1)(A1)

(b) $IQR * 1.5 + Q_3$ (M1)
 $= (10)(1.5) + 18$ (A1)
 $= 15 + 18$ (A1)
 $= 33$
 $p = 33$ (A1)