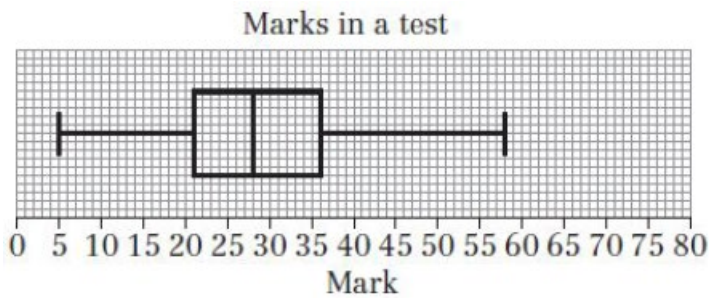


Exercise 3C

1



2 a Upper quartile is 47 marks
Lower quartile is 32 marks

b 38 marks

c $IQR = 47 - 32 = 15$ marks

d Range $76 - 12 = 64$ marks

3 a Male turtles have a higher median mass.

Males have a bigger range (or IQR).

b It is more likely to be a female. Very few male turtles weigh as little as this, but roughly three-quarters of the female turtles weigh even less.

c 500 g despite this data point being an outlier.

4 a $Q_1 = 22$
 $Q_2 = 26$
 $Q_3 = 30$

b The value is an outlier if it is greater than $Q_3 + 1.5(IQR) = 30 + 12 = 42$. Therefore 46 and 48 are both outliers.

