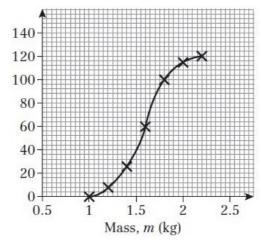
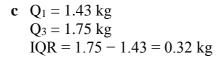
## **Representations of data 3C**

**1** a Cumulative frequencies are: 7, 25, 59, 100, 115, 120

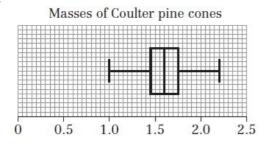




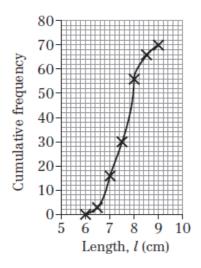




d

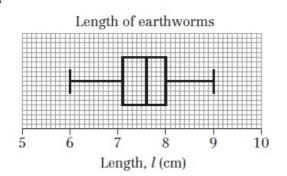


**2 a** Cumulative frequencies are: 3, 16, 30, 56, 66, 70

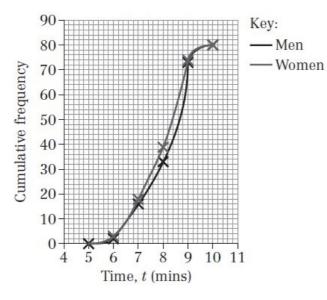


## Statistics and Mechanics Year 1/AS

- **2 b** Median = 7.6 cm  $Q_1 = 7.1$  cm  $Q_3 = 8$  cm
  - **c i** 70 62 = 8**ii** 24
  - d



**3** a Cumulative frequencies for men are: 2, 16, 33, 73, 80 Cumulative frequencies for women are: 3, 18, 39, 74, 80



**b** Median for men is 8.2 mins Median for women is 8 mins

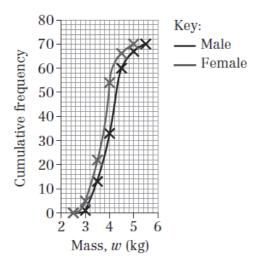
Women have the lower median time.

c IQR for men is 8.9 - 7.2 = 1.7 mins IQR for women is 8.6 - 7.1 = 1.5 mins

Men have the greater spread of times.

- d 24 men and 28 women
- **4 a** Cumulative frequencies for males are: 1, 13, 33, 60, 67, 70 Cumulative frequencies for females are: 5, 22, 54, 66, 70, 70





**b** IQR for males is 4.4 - 3.6 = 0.8 kg IQR for females is 4 - 3.4 = 0.6 kg

Males have the greater spread of masses.

c There are approximately 12 underweight females, and 25 underweight males.

There are fewer female underweight cats.