# Cumulative Frequency tables and graphs

**MATHS·SCHOOL**

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Name:

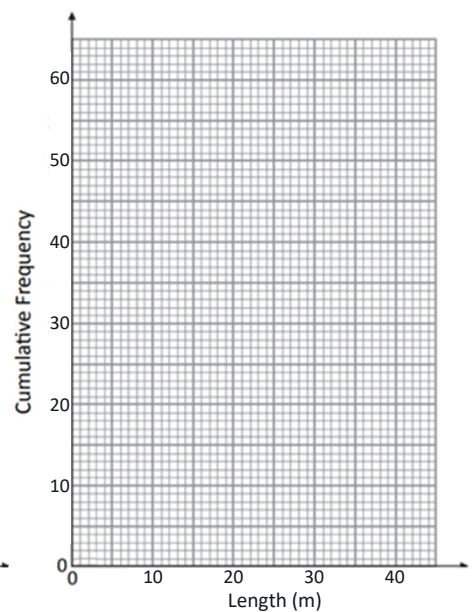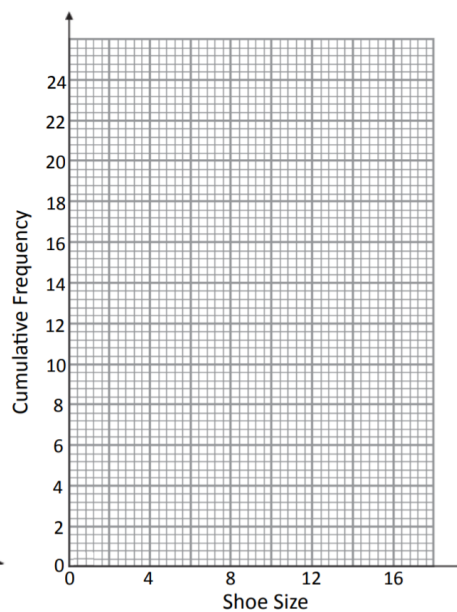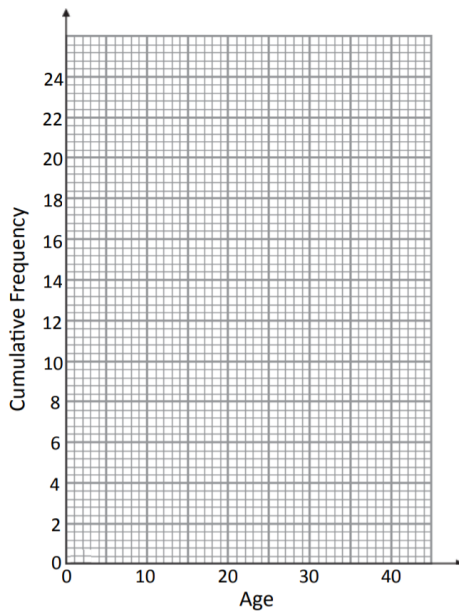Complete the cumulative frequency (CF) columns of the tables:

a)

| Age | Frequency | CF |
|---|---|---|
| 0 < a ≤ 10 | 5 | |
| 10 < a ≤ 20 | 2 | |
| 20 < a ≤ 30 | 8 | |
| 30 < a ≤ 40 | 7 | |

b)

| Shoe Size | Frequency | CF |
|---|---|---|
| 0 < s ≤ 4 | 4 | |
| 4 < s ≤ 8 | 6 | |
| 8 < s ≤ 12 | 5 | |
| 12 < s ≤ 16 | 8 | |

d)

| Length (m) | Frequency | CF |
|---|---|---|
| 0 < w ≤ 10 | 15 | |
| 10 < w ≤ 20 | 15 | |
| 20 < w ≤ 30 | 20 | |
| 30 < w ≤ 40 | 10 | |



d)

| Time (s) | Frequency | CF |
|---|---|---|
| 0 < t ≤ 10 | 6 | |
| 10 < t ≤ 20 | 8 | |
| 20 < t ≤ 30 | 10 | |
| 30 < t ≤ 40 | 5 | |

e)

| Weight (kg) | Frequency | CF |
|---|---|---|
| 0 < w ≤ 10 | 5 | |
| 10 < w ≤ 20 | 10 | |
| 20 < w ≤ 30 | 12 | |
| 30 < w ≤ 40 | 6 | |

f)

| Height (m) | Frequency | CF |
|---|---|---|
| 0 < h ≤ 10 | 4 | |
| 10 < h ≤ 20 | 11 | |
| 20 < h ≤ 30 | 12 | |
| 30 < h ≤ 40 | 3 | |
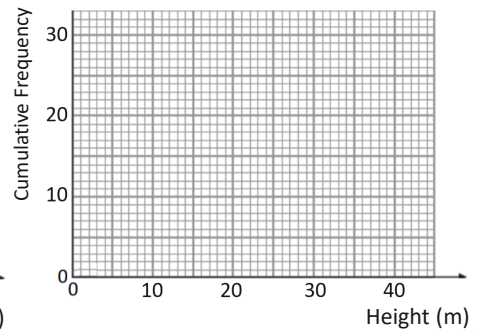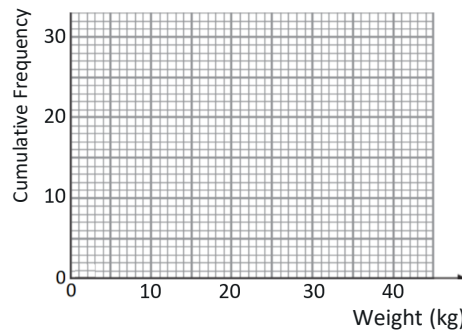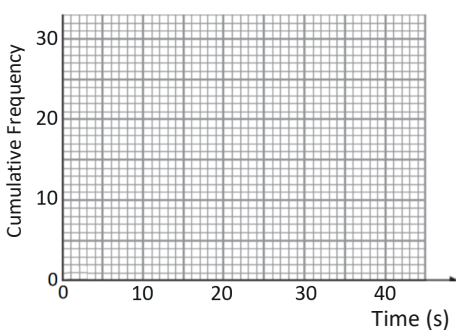


**Exam question:**

The frequency table shows the time taken for 300 people to travel to an event.

| Time (m) | Frequency | CF |
|---|---|---|
| 0 < t ≤ 10 | 60 | |
| 10 < t ≤ 20 | 80 | |
| 20 < t ≤ 30 | 100 | |
| 30 < t ≤ 40 | 60 | |
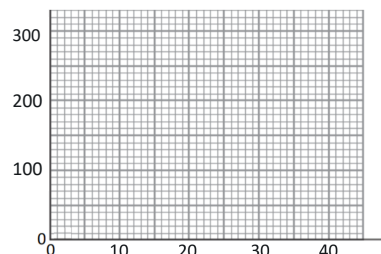
Draw a cumulative frequency graph to represent the information.