| Last Name | First Name | Date |
|-----------|-----------|------|
|           |           |      |

**1** (10 points). The following display is a cumulative relative frequency ogive for a sample of feral cats, with life span in months $t$ on the horizontal axis.
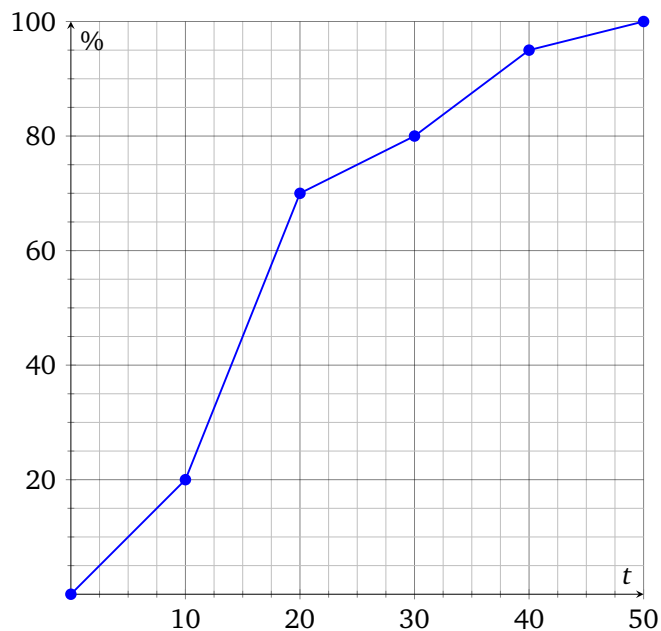


| Life span | RF | CRF |
|-----------|-----|-----|
|           |     |     |
|           |     |     |
|           |     |     |
|           |     |     |

(a) Fill out the table above with cumulative relative frequencies and then the relative frequencies for each of the shown classes.

(b) Use the grid above to construct the corresponding relative frequency histogram.

(c) What proportion of cats in the sample has life span of 20 months or less?

(d) What proportion of cats in the sample has life span of 30 months or more?

(e) What proportion of cats in the sample has life span between 10 and 40 months?

Consider the following class frequency distribution.

| class | relative frequency | cumulative relative frequency |
|---|---|---|
| $(15, 25]$ | 5% | |
| $(25, 35]$ | 15% | |
| $(35, 45]$ | 20% | |
| $(45, 55]$ | 5% | |
| $(55, 65]$ | 45% | |
| $(65, 75]$ | 10% | |

**2** (2 points). Fill out the **cumulative** relative frequencies in the table above.

**3** (3 points). Construct the relative frequency histogram.

**4** (3 points). Construct a corresponding **cumulative** relative frequency ogive.