



Write $1.2\dot{4}$ as a mixed number.
Use an algebraic approach and give your answer in its simplest form.

Write in the form $a\sqrt{2}$

$$\sqrt{72} + \sqrt{3} \times \sqrt{6}$$

Mass (m kg)	Frequency
$40 < m \leq 45$	64
$45 < m \leq 50$	74
$50 < m \leq 55$	155
$55 < m \leq 60$	80
$60 < m \leq 65$	26
$65 < m \leq 70$	1

Calculate an estimate of the interquartile range.

Shown is the graph of the function $y = f(x)$

Sketch

(a) $-f(x)$

(b) $f(x + p)$ where $0 < p < 1$

