

Solutions

$$\mu = 45\text{kg}$$

$$s = 6.7\text{kg}$$

$$\bar{x} = 42.6\text{kg}$$

$$n = 40$$

Method A (Casio Classwiz)	Method B (standardised)
42.6	$\frac{42.6-45}{\frac{6.7}{\sqrt{40}}} = -2.27$

$$\mu = 26\text{m}$$

$$s = 10.7$$

$$\bar{x} = 29.4$$

$$n = 60$$

Method A (Casio Classwiz)	Method B (standardised)
29.4	$\frac{29.4-26}{\frac{10.7}{\sqrt{60}}} = +2.46$

$$\mu = 6.2\text{ft}$$

$$s = 0.84\text{ft}$$

$$\bar{x} = 6.01\text{ft}$$

$$n = 110$$

Method A (Casio Classwiz)	Method B (standardised)
6.01	$\frac{6.01-6.2}{\frac{0.84}{\sqrt{110}}} = -2.37$

$$\mu = 110\text{ml}$$

$$s^2 = 15.4\text{ml}$$

$$\bar{x} = 109\text{ml}$$

$$n = 35$$

Method A (Casio Classwiz)	Method B (standardised)
109	$\frac{109-110}{\frac{\sqrt{15.4}}{\sqrt{35}}} = -1.51$

$$\mu = 285\text{mins}$$

$$s^2 = 184.3\text{mins}$$

$$\bar{x} = 297\text{mins}$$

$$n = 30$$

Method A (Casio Classwiz)	Method B (standardised)
297	$\frac{297-285}{\frac{\sqrt{184.3}}{\sqrt{30}}} = +4.84$