

Exam-style questions and sample answers have been written by the authors. In examinations, the way marks are awarded may be different.

# Workbook answers

## Chapter 17

### Exercise 17.1 Using the t-test to analyse variation

- 1 a For Area A, the range is 12 to 21 mm. For Area B, the range is 12 to 31 mm. So, we could divide the lengths into classes of 2 mm intervals.

Area A results:

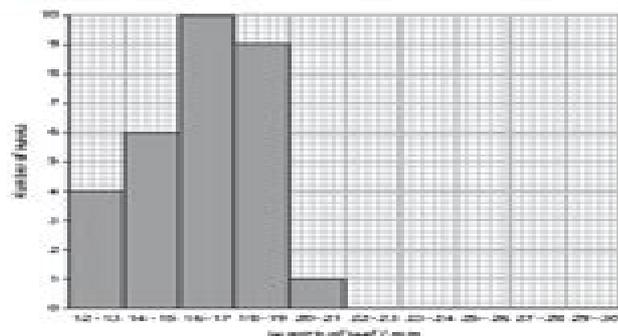
length / mm	12–13	14–15	16–17	18–19	20–21	22–23	24–25	26–27	28–29	30–31
tally										
number	4	6	10	9	1					

Area B results:

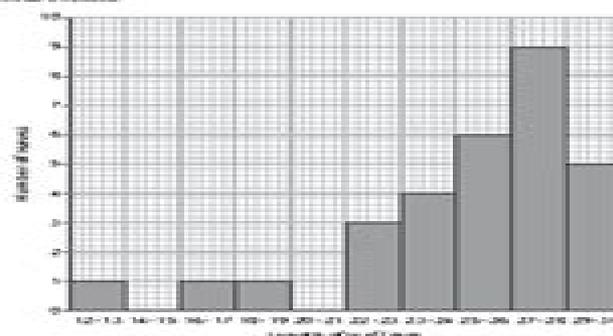
length / mm	12–13	14–15	16–17	18–19	20–21	22–23	24–25	26–27	28–29	30–31
tally										
number	1	0	1	1	0	3	4	6	9	5

b

Area A results



Area B results



- 2 Area A: 16.3 mm

Area B: 26.1 mm

- 3 a standard deviation for area A =  $s_1 = 2.168$   
 standard deviation for area B =  $s_2 = 4.299$   
 $\bar{x}_1 - \bar{x}_2 = 16.3 - 26.1 = -9.8$

Note: the vertical bars on either side of this expression in the formulae mean that we take the absolute value, and ignore the minus sign.

$$\frac{s_1}{n} = 4.70 - 30 = 0.157$$

$$\frac{s_2}{n} = 18.48 - 30 = 0.616$$

# Biology Workbook Chapter 17 Answers

**Jane B. Taylor, John D. Jackson**



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