

Box plots — Axis in 5s

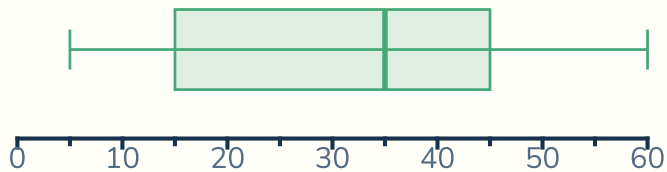


Name: _____

Date: _____

Read each box plot and answer the question.

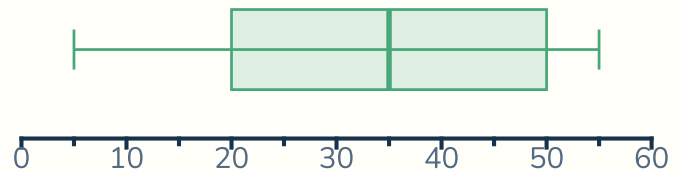
Minutes on the school bus (minutes)



1 What is the median?

35

Rainfall each week (mm)



4 What is the median?

2 What is the lower quartile?

5 What is the largest value?

3 What is the upper quartile?

6 What is the lower quartile?



Box plots — Axis in 5s

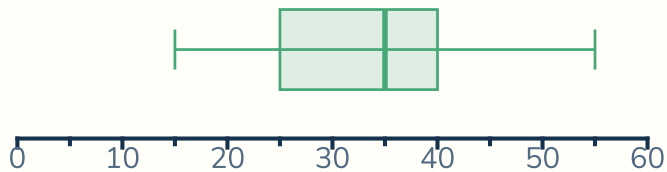


Name: _____

Date: _____

Use each box plot to work out the range and the interquartile range.

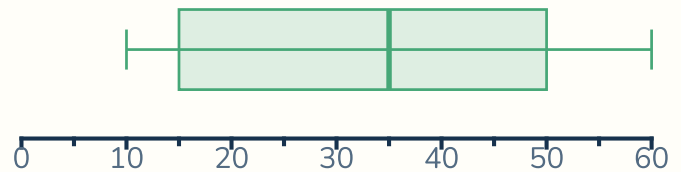
Rainfall each week (mm)



1 What is the interquartile range?

15

Minutes on the school bus (minutes)



4 What is the range?

2 What is the range?

5 What is the lower quartile?

3 What is the lower quartile?

6 What is the interquartile range?



Histograms — Intervals of 10

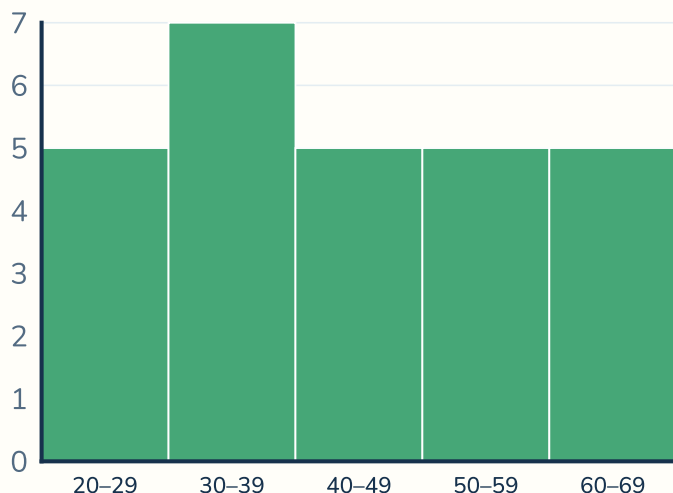
Name: _____

Date: _____

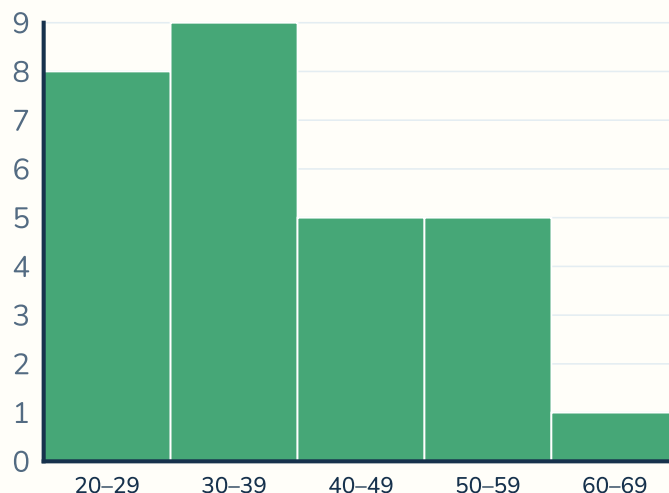


Read each histogram and answer the question.

Minutes waiting for the bus (minutes)



Minutes we read last night (minutes)



1 Which interval holds the most?

30-39

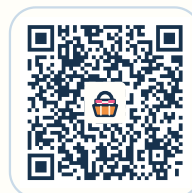
4 Which interval holds the most?

2 How many are under 40?

5 How many children are in the 20-29 interval?

3 How many riders were measured altogether?

6 How many children were measured altogether?



Two-way tables — Filling the gap from the totals



Name: _____

Date: _____

One number is missing from each table. Use the totals to find it.

1

	FRUIT	NO FRUIT	TOTAL
PACKED	4	6	10
CANTEEN	2	8	10
TOTAL	6	14	20

$$10 - 8 = 2$$

$$6 - 4 = 2$$

2

	CHESS	CARDS	TOTAL
JUNIORS	10	—	50
SENIORS	7	7	14
TOTAL	17	47	64

3

	PET	NO PET	TOTAL
GRADE 7	22	17	39
GRADE 8	35	—	50
TOTAL	57	32	89

4

	SWIM	HIKE	TOTAL
MORNING	17	8	25
AFTERNOON	—	8	10
TOTAL	19	16	35

5

	CHESS	CARDS	TOTAL
JUNIORS	—	7	25
SENIORS	21	5	26
TOTAL	39	12	51

6

	RENEWED	RETURNED	TOTAL
FICTION	3	—	10
FACTS	13	8	21
TOTAL	16	15	31



Power Pack · Box plots, histograms and two-way tables

— Answer key



Read a box plot

- | | | | |
|---|--|---|------------------------------------|
| 1. the line inside the box — 35 minutes | 2. the left edge of the box — 15 minutes | 3. the right edge of the box — 45 minutes | 4. the line inside the box — 35 mm |
| 5. the end of the right whisker — 55 mm | 6. the left edge of the box — 20 mm | | |

Range and IQR

- | | | | |
|--|---|-------------------------------------|-------------------|
| 1. the width of the box: $40 - 25 = 15$ | 2. $55 - 15 = 40$ | 3. the left edge of the box — 25 mm | 4. $60 - 10 = 50$ |
| 5. the left edge of the box — 15 minutes | 6. the width of the box: $50 - 15 = 35$ | | |

Histograms

- | | | | |
|-------------------------------|-----------------------------|-----------------------------|-------------------------------|
| 1. 30–39 — 7, the tallest bar | 2. $5 + 7 = 12$ | 3. $5 + 7 + 5 + 5 + 5 = 27$ | 4. 30–39 — 9, the tallest bar |
| 5. 20–29 — 8 | 6. $8 + 9 + 5 + 5 + 1 = 28$ | | |

Fill the gap

- | | | | |
|---------------------------|-----------------------------|----------------------------|---------------------------|
| 1. Canteen and Fruit = 2 | 2. Juniors and Cards = 40 | 3. Grade 8 and No pet = 15 | 4. Afternoon and Swim = 2 |
| 5. Juniors and Chess = 18 | 6. Fiction and Returned = 7 | | |