



Grade 4 Patterns & Data Unit Test

Name _____ Date _____ Score _____ / 24

Part A • Number Patterns

01 33, 35, 37, 39, ____ = ____

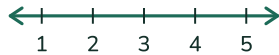
02 12, 20, 28, 36, ____ = ____

03 91, 101, 111, 121, ____ = ____

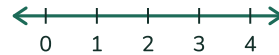
04 68, 85, 102, 119, ____ = ____

Part B • Inequalities

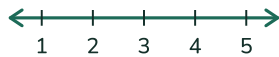
Solve, then graph the solution on the number line.



05 $x + 5 > 7$ _____



06 $x + 6 < 10$ _____



07 $x + 9 \geq 11$ _____



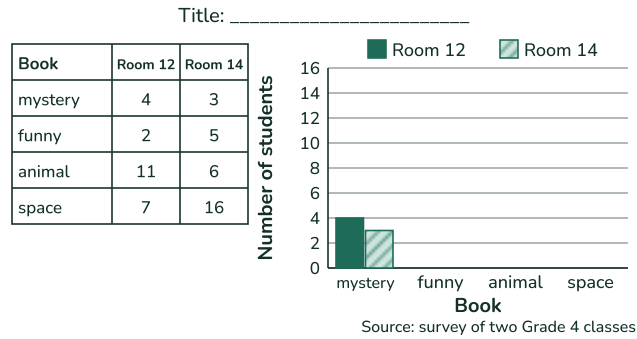
08 $x + 7 < 10$ _____



Grade 4 Patterns & Data Unit Test

Part C · Data & Graphs

- 09 Make a bar graph from the table.



- a) Finish the bar graph for both groups using the table.
- b) Write a title for your graph.
- c) In Room 12, which kind of book was chosen the most? _____

- 10 Use the stem-and-leaf plot about minutes to walk to school.

Minutes to walk to school

Stem	Leaf
1	1 4 7 7 9
2	4 5 7 9 9 9

Key: 1 | 1 means 11

Source: our walking survey

- a) What is the median number of minutes? _____
- b) How many students take more than 19 minutes to walk to school? _____
- c) What is the greatest number of minutes? _____



Grade 4 Patterns & Data Unit Test

Part C · Data & Graphs (continued)

- 11 Use the stem-and-leaf plot about pencils in each supply bin.

Pencils in each supply bin

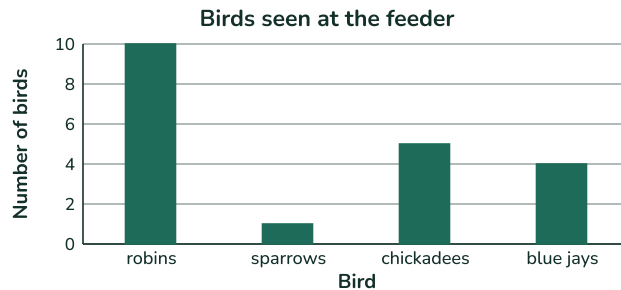
Stem	Leaf
1	4 4 6 7 8
2	0 1 3 7
3	1
4	5

Key: 1 | 4 means 14

Source: classroom supply check

- a) What is the median number of pencils? _____
- b) How many bins hold more than 20 pencils? _____
- c) What is the greatest number of pencils? _____

- 12 Use the bar graph about birds seen at the feeder.



Source: our class bird count

- a) How many robins were seen? _____
- b) How many more chickadees than sparrows were seen? _____
- c) How many more robins than sparrows were seen? _____

Part D · Mean, Median, Mode & Range

- 13 Mode of 11, 8, 19, 19, 16, 19 = _____



Grade 4 Patterns & Data Unit Test

Part D · Mean, Median, Mode & Range (continued)

14 Median of 6, 8, 4, 18, 8 = _____

15 Mean of 5, 6, 8, 5 = _____

16 Mode of 17, 6, 9, 18, 9, 9 = _____



Grade 4 Patterns & Data Unit Test (Answer Key)

Part A • Number Patterns

01 33, 35, 37, 39, ___ = **41**

02 12, 20, 28, 36, ___ = **44**

03 91, 101, 111, 121, ___ = **131**

04 68, 85, 102, 119, ___ = **136**

Part B • Inequalities

Solve, then graph the solution on the number line.



05 $x + 5 > 7$

$x > 2$



06 $x + 6 < 10$

$x < 4$



07 $x + 9 \geq 11$

$x \geq 2$



08 $x + 7 < 10$

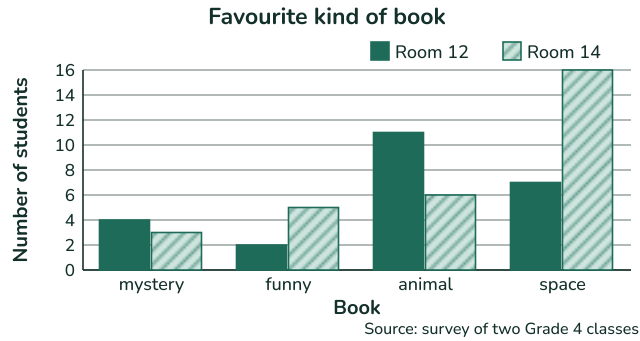
$x < 3$



Grade 4 Patterns & Data Unit Test (Answer Key)

Part C · Data & Graphs

- 09 Make a bar graph from the table.



- a) Finish the bar graph for both groups using the table.

See the graph.

- b) Write a title for your graph.

e.g. Favourite kind of book

- c) In Room 12, which kind of book was chosen the most?

animal

- 10 Use the stem-and-leaf plot about minutes to walk to school.

Minutes to walk to school

Stem	Leaf
1	1 4 7 7 9
2	4 5 7 9 9 9

Key: 1 | 1 means 11

Source: our walking survey

- a) What is the median number of minutes?

24 minutes

- b) How many students take more than 19 minutes to walk to school?

6 students

- c) What is the greatest number of minutes?

29 minutes



Grade 4 Patterns & Data Unit Test (Answer Key)

Part C • Data & Graphs (continued)

- 11 Use the stem-and-leaf plot about pencils in each supply bin.

Pencils in each supply bin

Stem	Leaf
1	4 4 6 7 8
2	0 1 3 7
3	1
4	5

Key: 1 | 4 means 14

Source: classroom supply check

- a) What is the median number of pencils?
 b) How many bins hold more than 20 pencils?
 c) What is the greatest number of pencils?

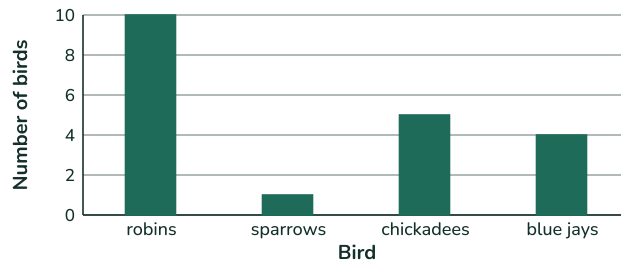
20 pencils

5 bins

45 pencils

- 12 Use the bar graph about birds seen at the feeder.

Birds seen at the feeder



Source: our class bird count

- a) How many robins were seen?
 b) How many more chickadees than sparrows were seen?
 c) How many more robins than sparrows were seen?

10 birds

4 birds

9 birds

Part D • Mean, Median, Mode & Range

- 13 Mode of 11, 8, 19, 19, 16, 19 = 19



Grade 4 Patterns & Data Unit Test (Answer Key)

Part D · Mean, Median, Mode & Range (continued)

14 Median of 6, 8, 4, 18, 8 = 8

15 Mean of 5, 6, 8, 5 = 6

16 Mode of 17, 6, 9, 18, 9, 9 = 9