New York Rainfall Statistics (2025)
Combining Statistics and Geography

NEW YORK RAINFALL STATISTICS 2025

Combining Statistics with Geography

n 2025, New York City
xperienced very
ifferent weather
atterns. Today we

RAINFALL DATA FOR NEW YORK (2025)

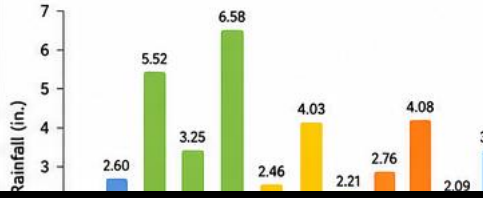
Month	Rainfall (in.)
January	0.61
February	2.60
March	5.52
April	3.25
May	6.58
June	2.46

NEW YORK SEASONS

New York is in the Northern Hemisphere.
Here are the seasons and their months:

Winter	December, January, February
Spring	March, April, May

MONTHLY RAINFALL BAR GRAPH



Mean (average): 3.30 in.

Median: 3.01 in.

Mode: No mode
(no number repeats)

Range: 5.97 in.
(6.58 – 0.61)

1 What percentage of the yearly rainfall fell in May?

$$\frac{6.58}{39.57} \times 100 \approx 16.6\%$$

2 What percentage of the yearly rainfall fell in January?

$$\frac{0.61}{39.57} \times 100 \approx 1.5\%$$

3 What percentage of the yearly rainfall fell during Spring?

$$\frac{15.35}{39.57} \times 100 \approx 38.8\%$$

(Spring total = March + April + May = 15.35 in.)

4 What percentage of the yearly rainfall fell during Winter?

$$\frac{6.59}{39.57} \times 100 \approx 16.7\%$$

(Winter total = Dec + Jan + Feb = 6.59 in.)

5 What percentage of the months had rainfall above 4 inches?

$$\frac{4}{12} \times 100 = 33.3\%$$

6 What percentage of the months were "dry months" (less than 3 in.)?

$$\frac{6}{12} \times 100 = 50\%$$

Season	Total Rainfall (in.)	Percent of Year
Spring	15.35	38.8%
Summer	8.70	22.0%
Fall	8.93	22.6%
Winter	6.59	16.7%
Total Yearly Rainfall: 39.57 in.		

RY, MODERATE, AND WET MONTHS

Months (than 3 in.)	Moderate Months (3 – 4 in.)	Wet Months (more than 4 in.)
uary ruary e gust tember vember	• April • December	• March • May • July • October
ths (50%)	2 months (16.7%)	4 months (33.3%)

do you notice about the wettest and driest months?

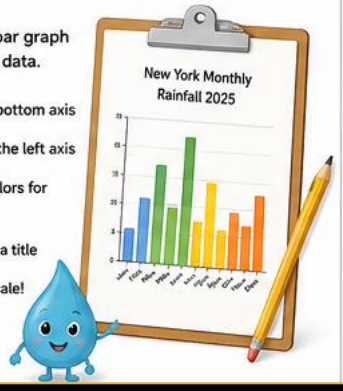
GEOGRAPHY CONNECTION

- Why do you think May had so much rain?
- Why might January have had very little rainfall?
- How could heavy rainfall affect life in New York City?
- Why do meteorologists collect rainfall data?

CREATE YOUR BAR GRAPH!

Make your own bar graph using the rainfall data.

- ✓ Months on the bottom axis
- ✓ Rainfall (in.) on the left axis
- ✓ Use different colors for each season
- ✓ Give your graph a title
- ✓ Don't forget a scale!



FINAL CHALLENGE

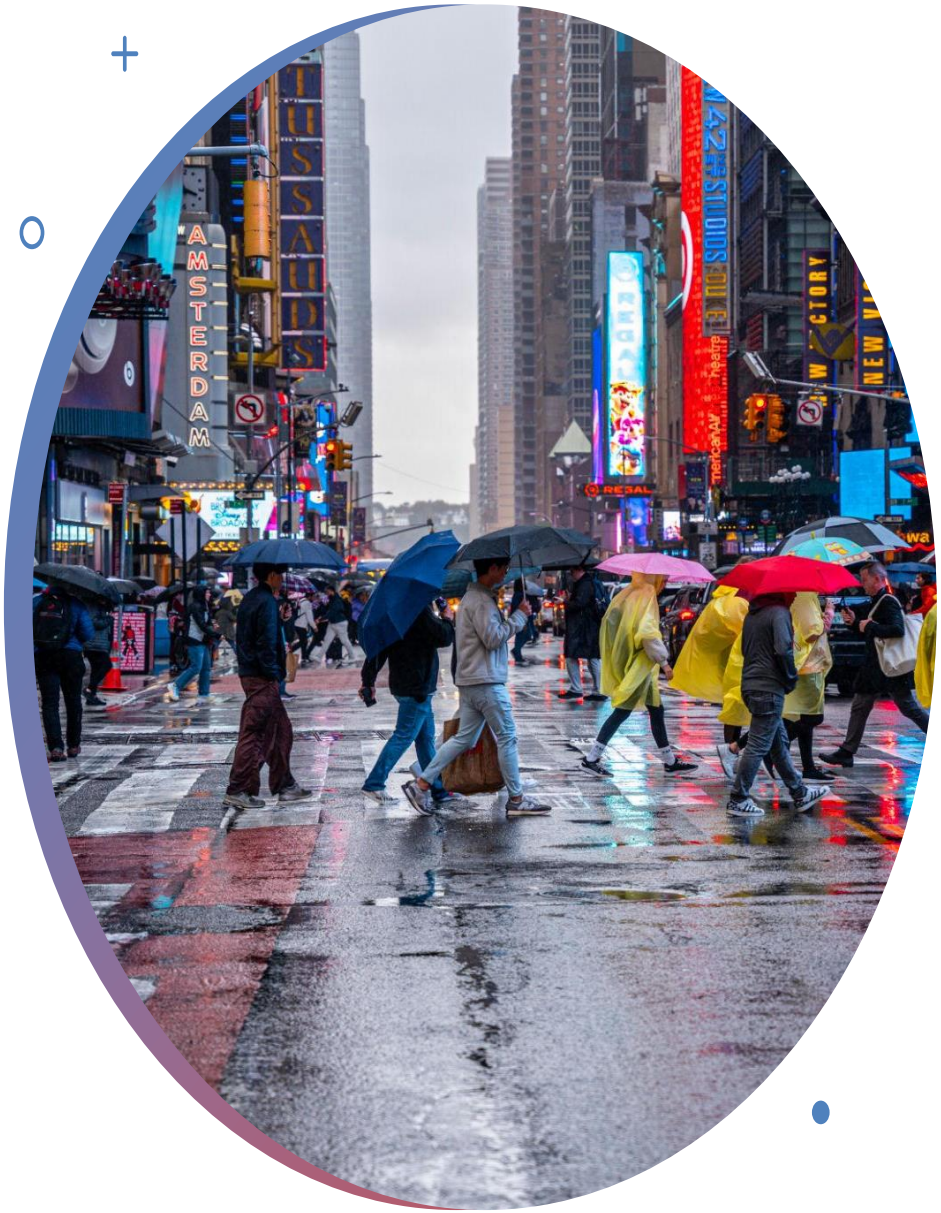
1. Which season was the wettest?
2. Which season was the driest?
3. Was New York generally wetter or drier than you expected?
4. Which statistical measure do you think was most useful today: mean, median, mode, or range? Why?

In 2025, New York City experienced many different types of weather. Some months were rainy and stormy, while others were much drier. Meteorologists carefully measure rainfall every month to help people understand weather patterns, predict floods, study climate, and prepare for severe weather.

Rainfall is measured in inches in the United States. By collecting rainfall data over time, scientists can compare seasons, identify weather trends, and better understand a city’s climate.

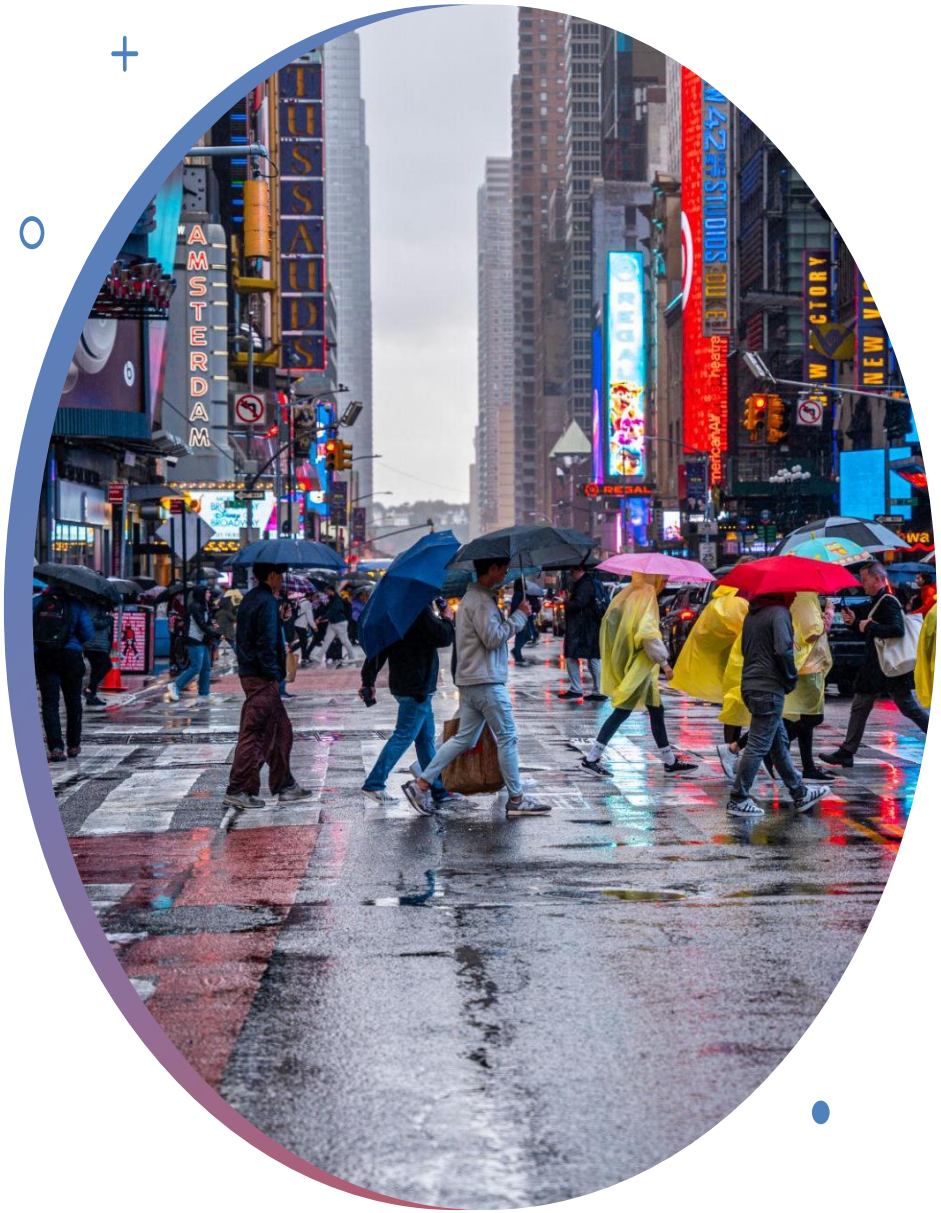
In this lesson, you will become a weather statistician. You will analyze real rainfall data from New York City using statistics such as mean, median, mode, range, percentages, and graphs. You will also explore how geography and seasons affect rainfall throughout the year.

Remember that this lesson focuses on rainfall only. During winter, New York often receives snow instead of rain, so snowfall is not included in this dataset.



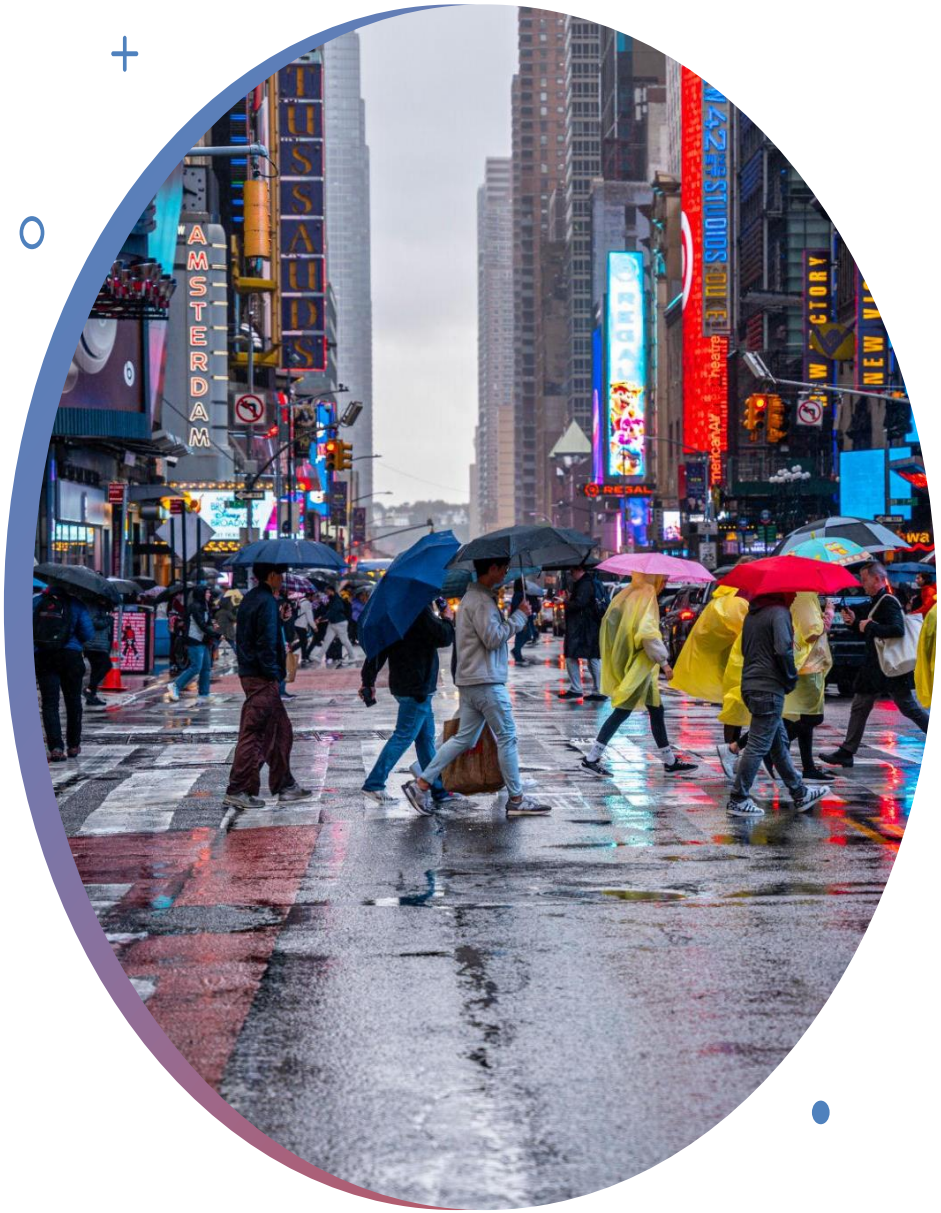
Rainfall Data

- January – 0.61 in.
- February – 2.60 in.
- March – 5.52 in.
- April – 3.25 in.
- May – 6.58 in.
- June – 2.46 in.
- July – 4.03 in.
- August – 2.21 in.
- September – 2.76 in.
- October – 4.08 in.
- November – 2.09 in.
- December – 3.38 in.



Understanding the Data

1. Which month had the highest rainfall?
2. Which month had the lowest rainfall?
3. Which months had more than 4 inches?
4. Which months had less than 3 inches?



Answers

1. May
2. January
3. March, May, July, October
4. January, February, June, August, September, November

Ordering the Data

Arrange the rainfall amounts from smallest to largest.

Ordered Data Answers

0.61, 2.09, 2.21, 2.46, 2.60, 2.76, 3.25, 3.38, 4.03, 4.08, 5.52, 6.58

Mean Rainfall

Calculate the mean monthly rainfall. Round to the nearest hundredth.

Mean Rainfall

- 39.57 ÷ 12 = 3.30
- Mean monthly rainfall = 3.30 in.

Median Rainfall

Calculate the median rainfall. Round to the nearest hundredth.

Median Rainfall

- Middle numbers: 2.76 and 3.25
- (2.76 + 3.25) ÷ 2 = 3.01 in.

Mode

Calculate the mode.

Mode

- No rainfall amount repeats.
- There is no mode.

Range

Calculate the range.

Range

- Highest − Lowest
- 6.58 − 0.61 = 5.97 in.

New York Seasons

- Winter: December, January, February
- Spring: March, April, May
- Summer: June, July, August
- Fall: September, October, November

Percentage Question 1

What percentage of the yearly rainfall fell in May?

Percentage Question 1 (Answer)

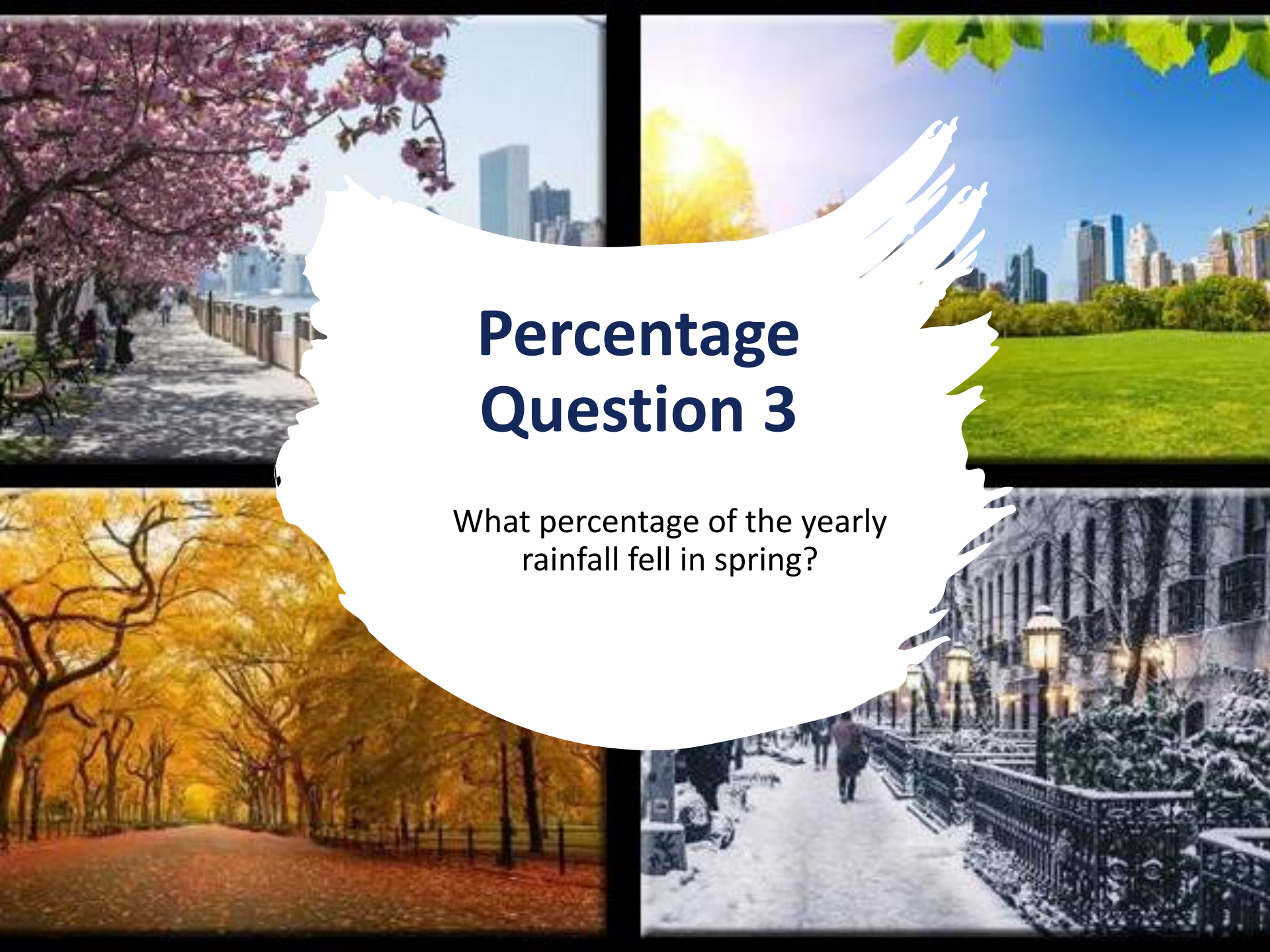
$6.58 \times 100 \div 39.57 = 16.6\%$

Percentage Question 2

What percentage fell in January?

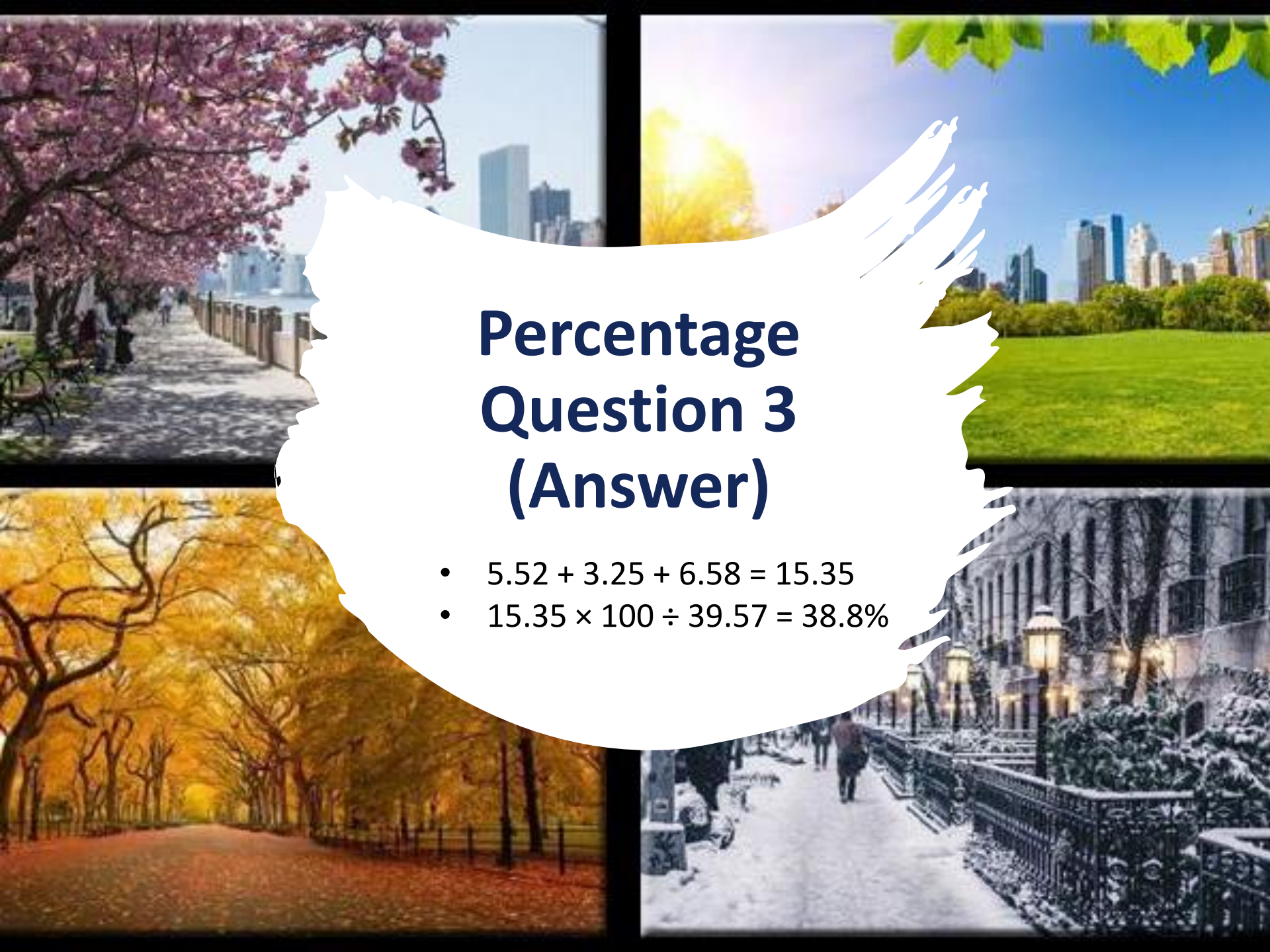
Percentage Question 2 (Answer)

$0.61 \times 100 \div 39.57 = 1.5\%$



Percentage Question 3

What percentage of the yearly rainfall fell in spring?



Percentage Question 3 (Answer)

- 5.52 + 3.25 + 6.58 = 15.35
- 15.35 × 100 ÷ 39.57 = 38.8%

Percentage Question 4

What percentage of the yearly rainfall fell in winter?

Percentage Question 4 (Answer)

- 3.38 + 0.61 + 2.60 = 6.59
- 6.59 ÷ 39.57 × 100 = 16.7%

Percentage Question 5

What percentage of the months had rainfall greater than 4 inches?

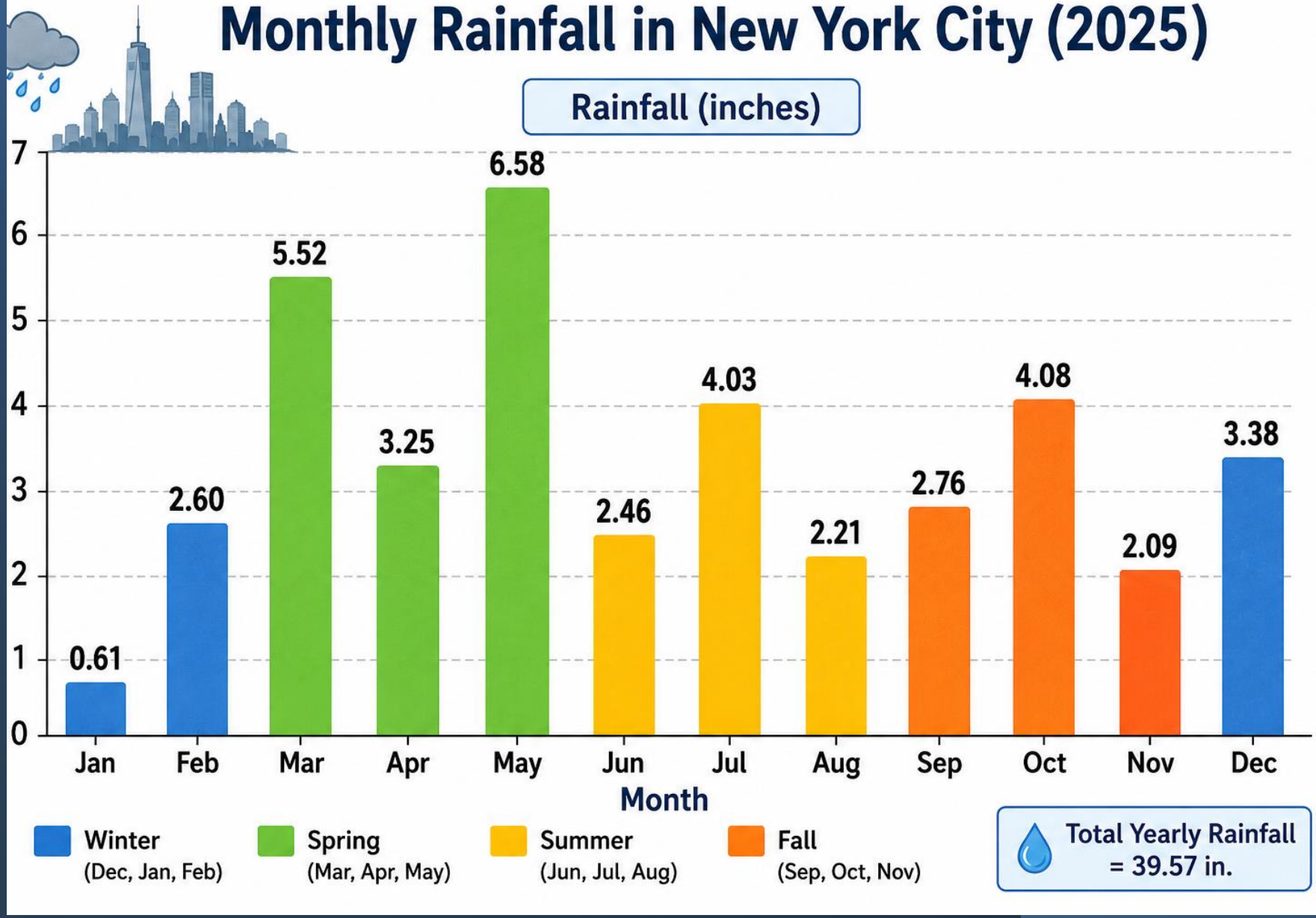
Percentage Question 5 (Answer)

- 4 out of 12
- 4 ÷ 12 × 100 = 33.3%

Bar Graph Activity

- Create a colorful bar graph.
- Months on the bottom axis.
- Rainfall on the left axis.
- Color each season differently.

Monthly Rainfall in New York City (2025)



Final Discussion

1. Which season was wettest?
2. Which season was driest?
3. Which statistical measure was most useful?

Final Discussion (Answers)

1. Spring was the wettest season.
2. Winter was the driest season for rainfall, but snowfall was not included in the data.
3. The mean was most useful because it showed the average monthly rainfall.