Histograms Multiple Choice Practice

1. **The following data shows prices of meal options at Bob's Burgers.   Bob wants to construct a histogram from this graph.**

Prices of Meal Options at Bob's Burgers

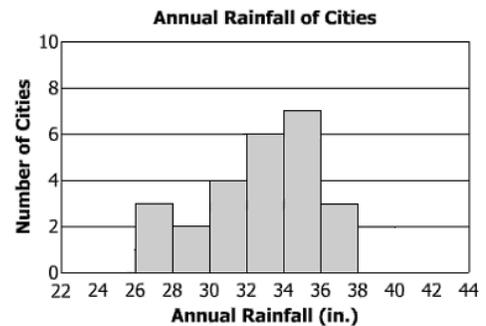|				
$6	$7	$7	$8	$9
$10	$10	$11	$11	$12
$12	$13	$13	$13	$13
$14	$14	$14	$15	$15
$15	$15	$16	$16	$17

How many meals could belong in the interval $10.99 - $13.99?

   A) 6   **B)** 8   **C)** 10   **D)** 13

2. **The annual amount of rainfall for 25 cities was recorded and is shown in the histogram below.**

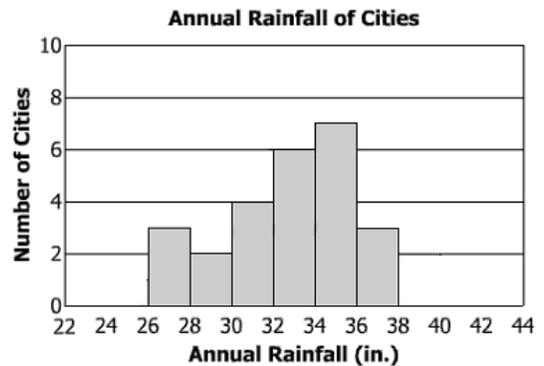**How many cities could have an annual rainfall of 28.5 in − 32.5 in?**

   A) 6   **C)** 8

   B) 9   **D)** 12

Annual Rainfall of Cities

3. **The annual amount of rainfall for 25 cities was recorded and is shown in the histogram below.**

How many intervals could represent an annual rainfall of 30 in − 36 in?
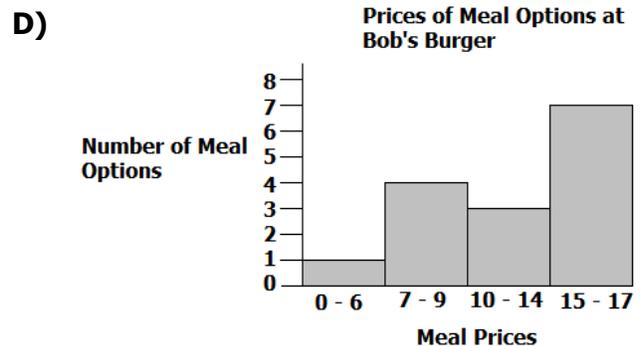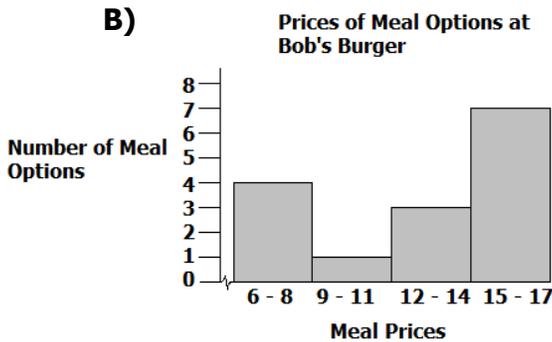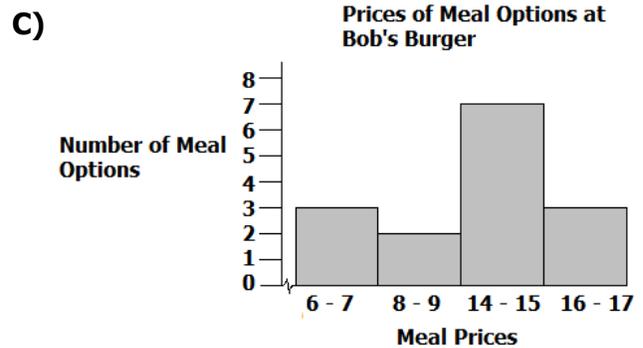
   A) 2   **C)** 3

   B) 4   **D)** 5

Annual Rainfall of Cities

4. The following data shows prices of meal options at Bob's Burgers.

Prices of Meal Options at Bob's Burgers

$6	$7	$7	$8	$9
$14	$14	$14	$15	$15
$15	$15	$16	$16	$17

Which histogram correctly displays the information above?

A)

Prices of Meal Options at Bob's Burger

Number of Meal Options

8
7
6
5
4
3
2
1
0

0 - 5   5 - 10   10 - 15   15 - 20

Meal Prices

C)

Prices of Meal Options at Bob's Burger

Number of Meal Options

8
7
6
5
4
3
2
1
0

6 - 7   8 - 9   14 - 15   16 - 17

Meal Prices

B)

Prices of Meal Options at Bob's Burger

Number of Meal Options

8
7
6
5
4
3
2
1
0

6 - 8   9 - 11   12 - 14   15 - 17

Meal Prices

D)

Prices of Meal Options at Bob's Burger

Number of Meal Options

8
7
6
5
4
3
2
1
0

0 - 6   7 - 9   10 - 14   15 - 17

Meal Prices

5. The histogram below represents the results of a survey conducted from a local university asking recent graduates the amount of their first year salary.

How many recent graduates make less than 44,000 dollars?

A) 400   **C)** 1,000

**B)** 2,700   **D)** Cannot be determined using the information given

600
500
400
300
200
100
0

Number of employees

0–10 11–21 22–32 33–43 44–54 55–65 66–76 77–87 88+

Salary ($ thousands)
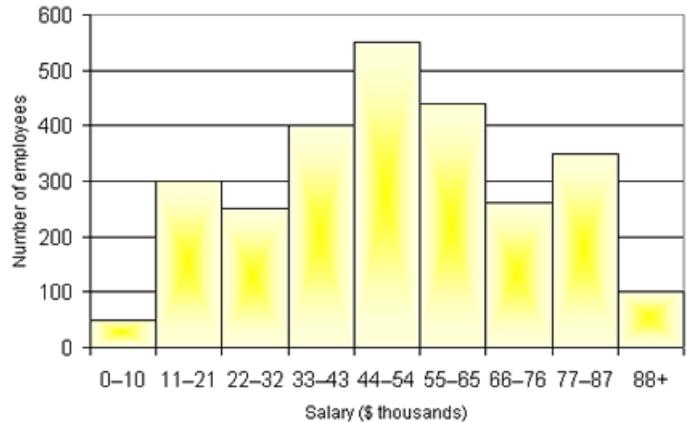
6. **The histogram below shows the scores for Mrs. Smith's first block class at Red Rock Middle School.**

If an 85 is the lowest score a student can earn to receive a B, how many students received at least a B?

A) 4   **C)** 6

B) 10   **D)** 15

Test Scores of Mrs. Smith's First Block Class
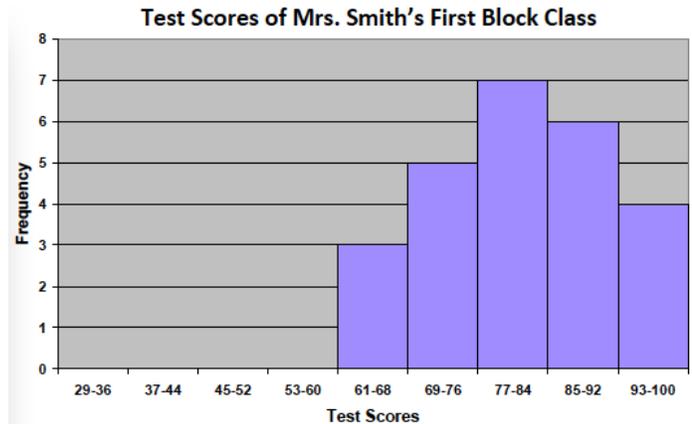
7. **The histograms below show the scores for Mrs. Smith's first and second block class at Red Rock Middle School.**

Test Scores of Mrs. Smith's First Block Class

Test Scores of Mrs. Smith's Second Block Class
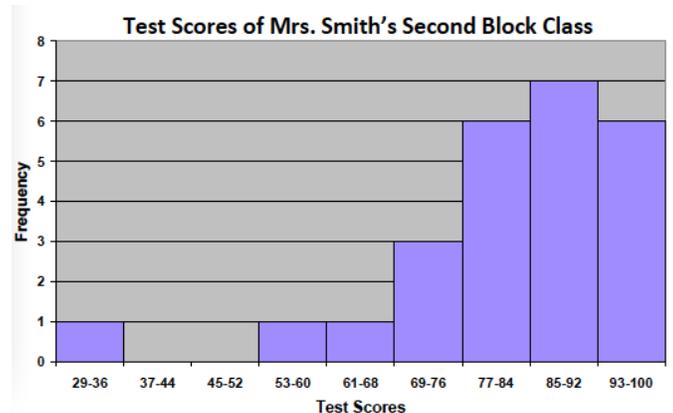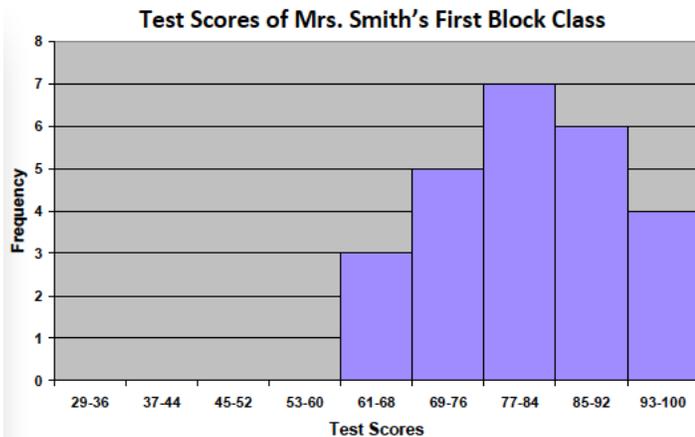
Compare the histograms using the following information:

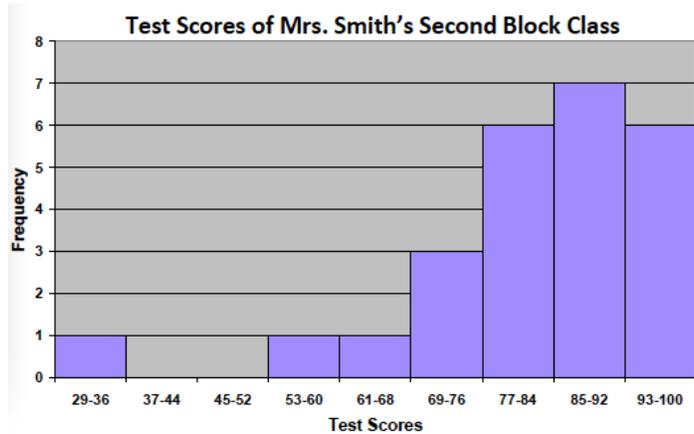- **69 and above is passing**
- **68 or below is failing**

Which of the following statements is true?

A) The number of students that passed the test is the same in both classes.

B) More students passed in first block than second block.

C) More students passed in the second block than first block.

D) Cannot be determined based on the graphs given.

8. The histogram below shows the scores for Mrs. Smith's second block class at Red Rock Middle School.
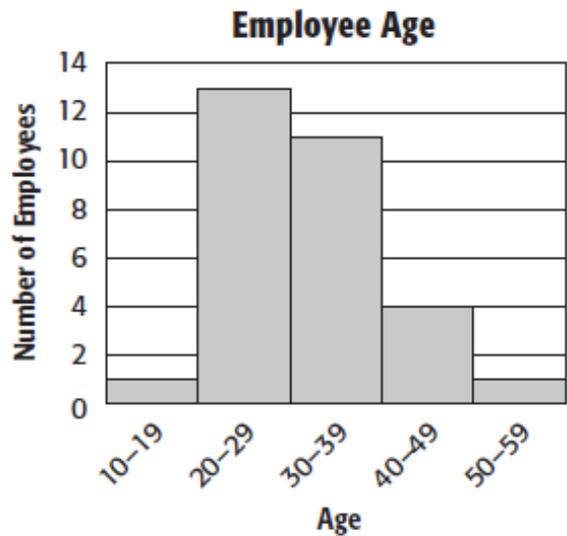
How many students scored a 77 on the test?

A) 0

B) 1

C) 6

D) Cannot be determined

Test Scores of Mrs. Smith's Second Block Class

(Histogram with y-axis labeled "Frequency" from 0 to 8, x-axis labeled "Test Scores" with intervals: 29-36, 37-44, 45-52, 53-60, 61-68, 69-76, 77-84, 85-92, 93-100)

9. Cosmic, Inc. is a software company with 30 employees. The ages of the employees are displayed in the histogram.

How old is the youngest employee?

A) 10

B) 15

C) 19

D) Cannot be determined

Employee Age

(Histogram with y-axis labeled "Number of Employees" from 0 to 14, x-axis labeled "Age" with intervals: 10-19, 20-29, 30-39, 40-49, 50-59)

10. Cosmic, Inc. is a software company with 30 employees. The ages of the employees are displayed in the histogram.

Which interval has the least number of employees?

A) 10-19

B) 50-59

C) Both A and B

D) Cannot be determined

Employee Age

(Histogram with y-axis labeled "Number of Employees" from 0 to 14, x-axis labeled "Age" with intervals: 10-19, 20-29, 30-39, 40-49, 50-59)