

Free Activity!

6th Grade

Statistics and Probability

**Interpret and Describe
Information in
Histograms**

Statistics
and
Probability

6th Grade

CCSS
6.SP.1 - 5

**1 of the
many
activities
in this
resource!**

Created by Hilda Ratliff

Histograms

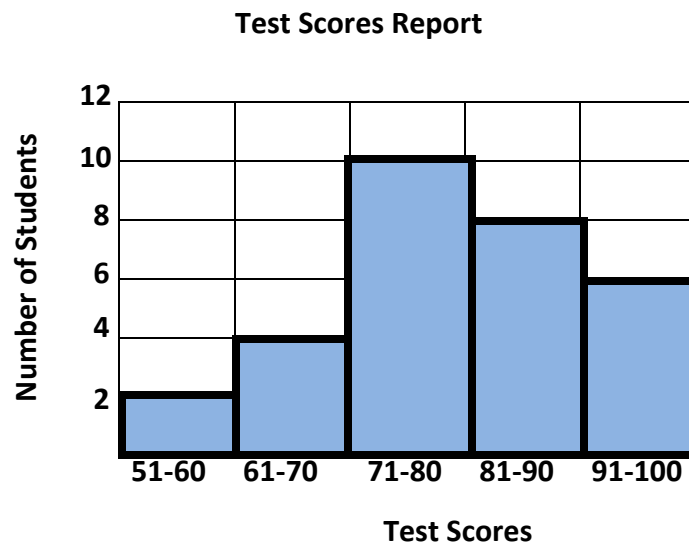
Name _____

1. Histograms are used to display information where the data is shown in groups called intervals.

Example:

The histogram shows the test scores of 30 students as recorded in the table.

100	72	55	89	88	95	92	68	84	75
70	85	80	100	58	78	87	88	74	73
93	78	64	79	79	84	94	75	82	64



Observations:

The graph peaks at the 71–80 interval. More students scored in this range.

Only 2 students scored between 51 and 60.

The graph is approximately symmetric.

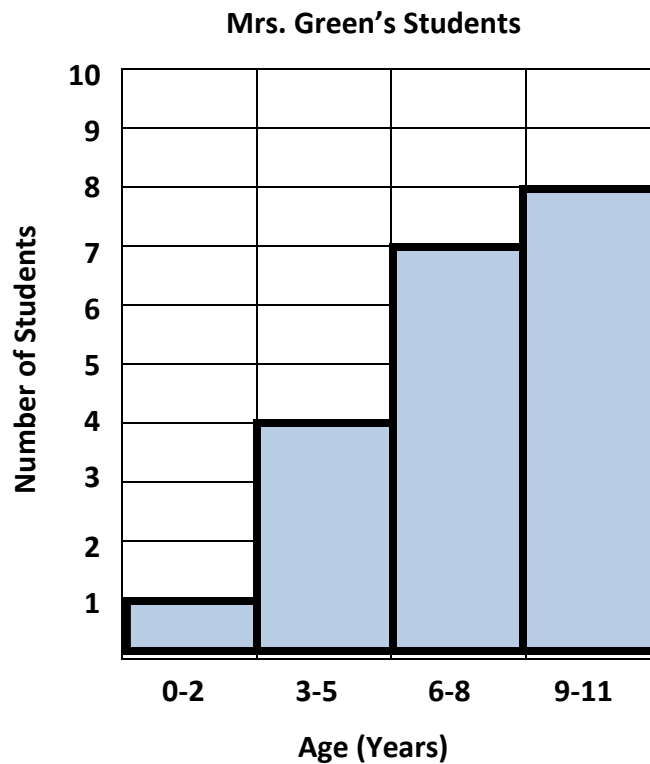
Questions:

1. How many students scored in the 91-100 interval? _____

2. How many students scored in the 61-70 interval? _____

3. What percent of the students scored 91-100? _____

2. Mrs. Green gives swimming lessons. The histogram represents the number of students in each age group.



1. How many of her students are 6-8 years old? _____

2. What is the overall shape of the graph?

a) approximately symmetric b) skewed right c) skewed left

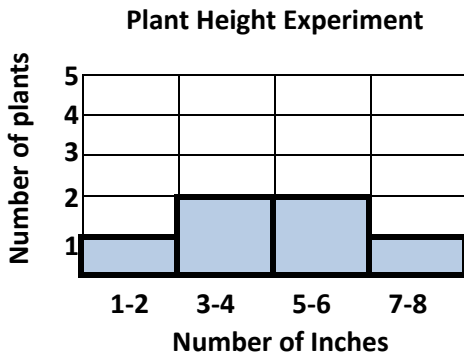
3. Where does the graph peak? _____

4. How many students does Mrs. Green teach? _____

5. What percent of her students is 0-5 years old? _____

Independent Practice

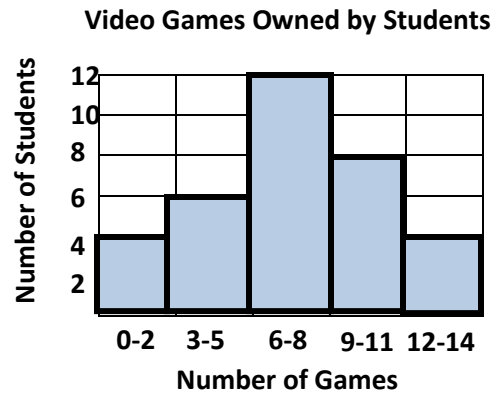
1.



1. The overall shape of this graph is _____ .

2. How many plants were 5-6 inches tall at the end of the experiment?

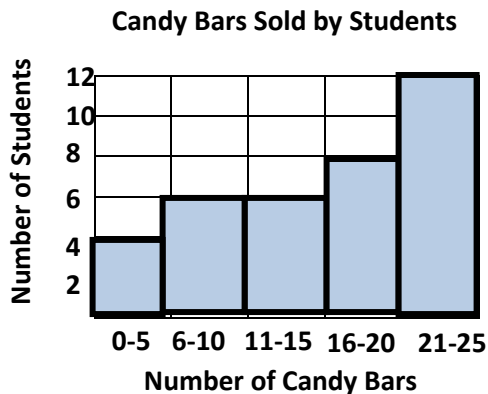
2.



1. The graph peaks for which interval? _____

2. How many students are represented in the histogram?

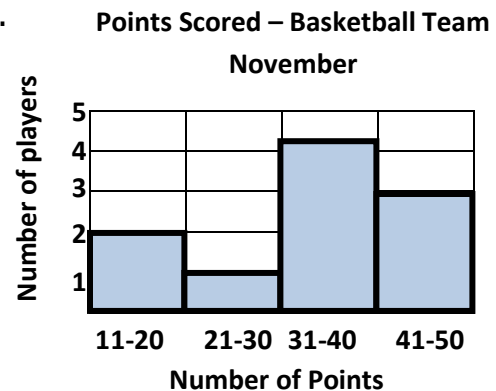
3.



1. The overall shape for this graph is _____ .

2. What percent of the total students who participated in the sale sold 21-25 candy bars?

4.



1. How many players scored points in November? _____

2. What percent of the total players scored 31-40 points in November?

Histograms

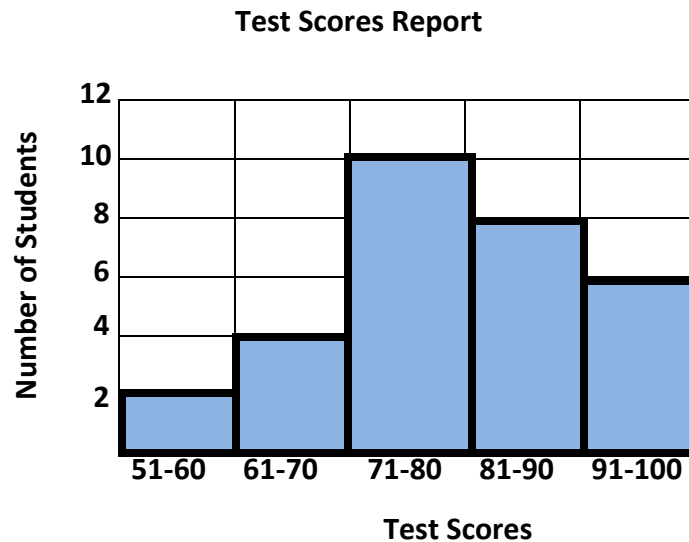
Name **ANSWER KEY**

1. Histograms are used to display information where the data is shown in groups called intervals.

Example:

The histogram shows the test scores of 30 students as recorded in the table.

100	72	55	89	88	95	92	68	84	75
70	85	80	100	58	78	87	88	74	73
93	78	64	79	79	84	94	75	82	64



Observations:

The graph peaks at the 71–80 interval. More students scored in this range.

Only 2 students scored between 51 and 60.

The graph is approximately symmetric.

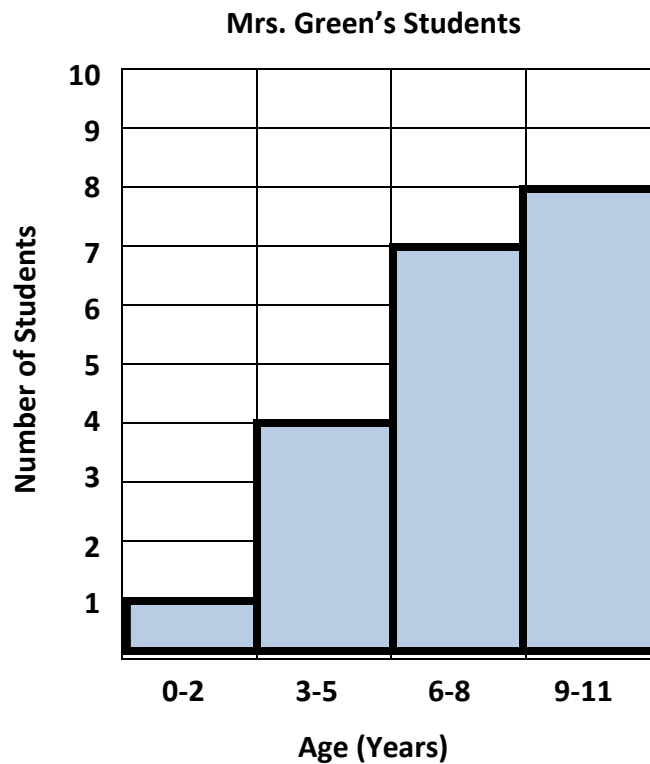
Questions:

1. How many students scored in the 91-100 interval? **6**

2. How many students scored in the 61-70 interval? **4**

3. What percent of the students scored 91-100? **6 out of 30 = 20%**

2. Mrs. Green gives swimming lessons. The histogram represents the number of students in each age group.



1. How many of her students are 6-8 years old? 7 students

2. What is the overall shape of the graph?

a) approximately symmetric b) skewed right c) skewed left

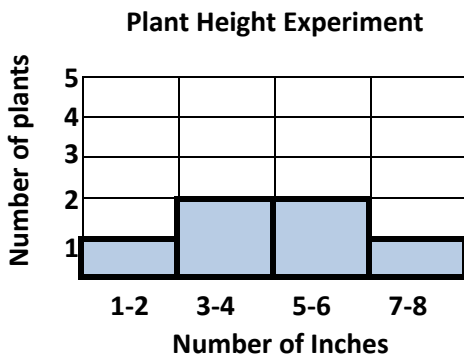
3. Where does the graph peak? 9-11 year olds

4. How many students does Mrs. Green teach? 20 students

5. What percent of her students is 0-5 years old? **5 out of 20 = 25%**

Independent Practice

1.



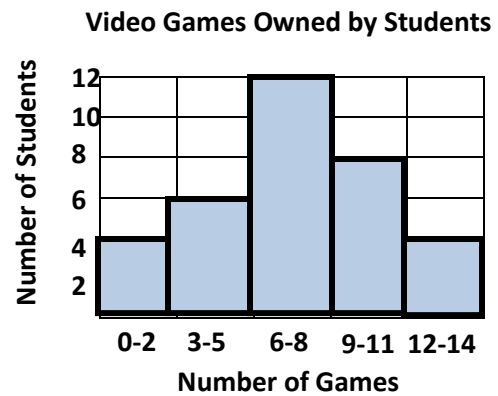
1. The overall shape of this graph is

___ **symmetric** ___ .

2. How many plants were 5-6 inches tall at the end of the experiment?

___ **2 plants** ___

2.



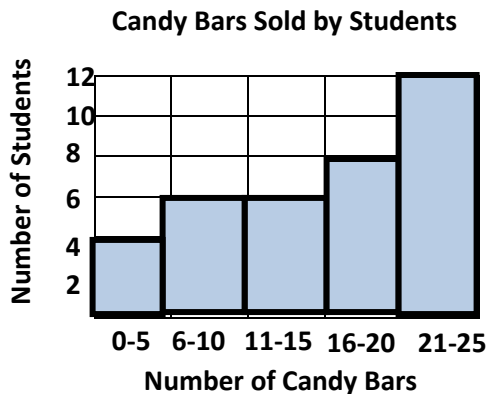
1. The graph peaks for which

interval? **6-8 games**

2. How many students are represented in the histogram?

___ **34 students** ___

3.



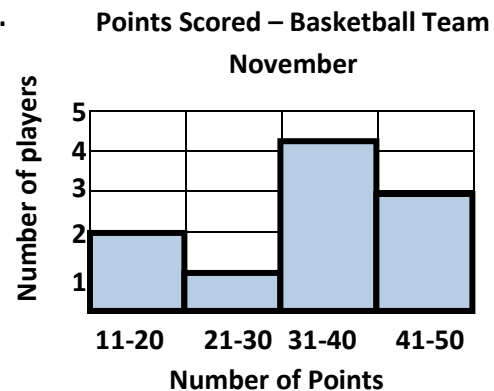
1. The overall shape for this graph is

___ **skewed left** ___ .

2. What percent of the total students who participated in the sale sold 21-25 candy bars?

12 out of 36 ≈ 33%

4.



1. How many players scored points in

November? **10 players**

2. What percent of the total players scored 31-40 points in November?

4 out of 10 = 40%

Thank you for viewing/downloading this product.

This free activity is one of the activities in the resource listed below.

[Common Core Math 6th Grade - Statistics and Probability - CCSS 6.SP](#)

If you have a question about this product please contact me in **Product Q & A.**

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<http://www.teacherspayteachers.com/Store/Hilda-Ratliff>

Additional 6th grade resources are listed below.

[Common Core Math 6th Grade Expressions \(6.EE.2a,b,c\) with I Have-Who Has Game](#)

[Common Core Math 6th Grade Equivalent Expressions \(6.EE.3,4\) with I Have-Who Has](#)

[Common Core Math 6th Grade Equations/Inequalities Write Expressions \(6.EE.5.6\)](#)

[Common Core Math 6th Grade - Solve Equations - Graph Inequalities \(6.EE.7,8\)](#)

[Common Core Math Activities 6th Grade \(6.EE.9\) Tables, Graphs, Equations](#)

[Common Core Math 6th Grade Geometry 6.G.1 Area Parallelogram Triangle Activities](#)

[Common Core Math 6th Grade Geometry 6.G.4 Surface Area Prisms](#)

[Math Board Games Bundle - 6th Grade - \(6.RP\) \(6.NS\) \(6.EE\) \(6.G\) \(6.SP\)](#)

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