books

median

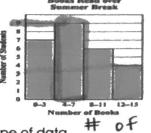
## Histograms

A histogram is a bar graph used to display the frequency of data divided into equal intervals, called bins. The bars must be of equal width and should touch, but not overlap. The height of each bar gives the frequency of the data.

An example of a histogram is below:

How many students read 4-7 books? - 9 students

How many more students read 4-7 books than 12-15 books?



#

Advantages of Histograms:

Good for determining the shape of data

Convenient for representing large quantities of data

Disadvantages of Histograms:

Cannot read exact values because data is grouped into categories

More difficult to compare two data sets because measures of center and

spread cannot be determined

	VO1.8	Treatur
TYPE	DESCRIPTION	PIÇFURE
SYMMETRIC	When graphed, a vertical line drawn at the center will form mirror images.  This shape is referred to as the bell shaped curve or normal curve  The median will be in or close to the center of the	
SKEWED LEFT (NEGATIVE SKEW)	rumber line.  Fewer data points are found to the left of the graph (towards the smaller data values). The "tail" of the graph is to the left.  The median will be shifted right and the "tail" on the left. Typically, the mean is less than or to the left of the median.	
SKEWED RIGHT  (POSITIVE SKEW)	Fewer data points are found to the right of the graph (towards the bigger data values). The "tail" of the graph is to the right.  The median will be shifted left and the "tail' on the right. Typically the mean is greater than or to the right of the median	R
UNIFORM	The data is spread equally (or very close to equally) across the range.  Uniform distributions are a type of symmetric distributions.  The median will be in or close to the center of the number line.	

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## Search topics and skills Welcome, Lindsay Pease! \* Analytics Learning Diagnostic Teacher resources Recommendations Skill plans Math Language arts Eighth grade CC.11 Interpret histograms HVL Learn with an example ~ A business magazine surveyed its readers about their commute times. Commute time (minutes) Number of commutes out of 100 \$ 5-9 10-14 15-19 20-24 0-4 highest bot? Time (minutes) Which range has the most commutes? feacher results 0-4 minutes 5-9 minutes 10-14 minutes 15-19 minutes

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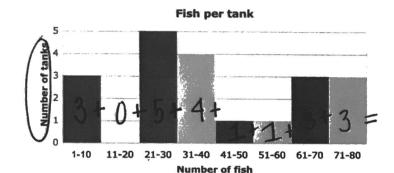
Eighth grade

CC.11 Interpret histograms HVL

Share stell

Questions

A pet store owner had his staff count the number of fish in each tank.



1

Time

00 01 21

SmartScore
out of 100 1

10

How many tanks are there in all?



3+0+5+4+1+1+3+3=20

**tanks** 

Teacher preview

ump a level

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Teacher results not recorded

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Questions

A researcher recorded the number of cows on each farm in the county.

2

Time

erapoec

HR MEN SEC

SmartScore
out of 100 7

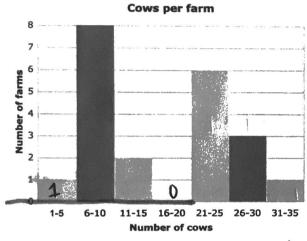
19

Teacher preview

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Teacher results not recorded



1

>

U

Are there more farms that have 1-5 cows or farms that have 16-20 cows?

1-5 cows

16-20 cows

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For educators affected by school closures, check out IXL's resource center with everything you need! At-home Learning Hub

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restaurants

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A food magazine published a listing of local restaurant ratings.

**Restaurant ratings** 

**SmartScore** out of 100 T

**Teacher results** not recorded

11-15 16-20 21-25 26-30 31-35 36-40 Rating

Which rating range was achieved by the fewest restaurants?

11-15 points

36-40 points

1-5 points

1-5

6-10

6-10 points

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Questions answered

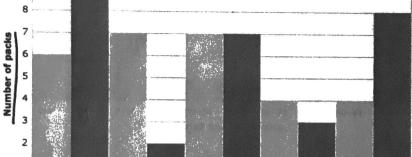
A cookie factory monitored the number of broken cookies per pack yesterday.

Broken cookies per pack





30-39 40-49 50-59 60-69 70-79 80-89 90-99



Number of broken cookies

36

Smart Scare

me of 100 \$

Teacher

Jump a leve

<< >>>

not recorded

How many packs had between 10 and 19 broken cookies?

20-29

packs

1

0-9

10-19

Submit

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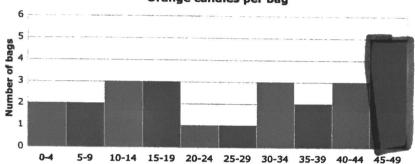
CC.11 Interpret histograms HVL

Share slott

Questions answered

A candy dispenser put various numbers of orange candies into bags.

Orange candies per bag



Number of orange candies

6

Time

00 02 51

HR MIN SEC

SmartScore out of 100 1

49

Which range of orange candies per bag occurred most frequently?

15-19 orange candies

Often-highest bur?

preview

Jump a level

< 22°

not recorded

25-29 orange candies

40-44 orange candies

45-49 orange candies

Submit

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2

0

1-10

Number of people 4 Skill plans

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Eighth grade

CC.11 Interpret histograms HVL

Game show scores

The staff of a game show tracked the performance of all the contestants during the past season.

41-50 51-60

**SmartScore** out of 100 1

Which score range was achieved by the most people?

Score

11-20 21-30



Submit

31-40 points

41-50 points

51-60 points

preview

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GA Standards A

Eighth grade

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Questions

A high school basketball coach counted the number of points his team scored each game.

7

Time

00 03 05 HR MEN SEC

SmartScore out of 100 ?

55

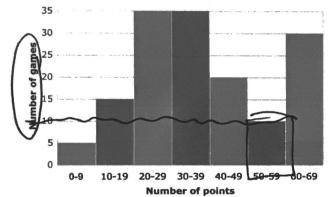
Teacher

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QC >>

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Points per game



How many games had between 50 and 59 points?

∭ games

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Science Soc

Social studies S

Soanish

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Awands

Eighth grade

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Share skill

answered

Belle counted the number of pieces of pepperoni on each pizza she made.

10

\_

elapsed

HR MIN SEC

out of 100 T

60

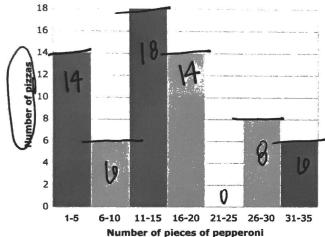
Teacher preview

Jump a level

**6(** )>

Teacher results not recorded

Pieces of pepperoni per pizza



trained of process of puppe

14+6+18+14+0+8+6=

How many pizzas were there in all?

Submit

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Austra

Eighth grade

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Questions

A food magazine published a listing of local restaurant ratings.

11

Time

0 04 12

HR MIN SEC

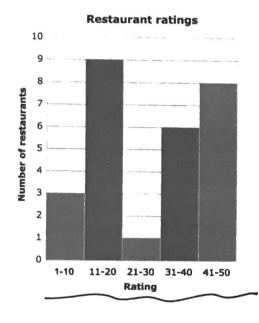
SmartScore
out of 100 7

64

Teacher preview

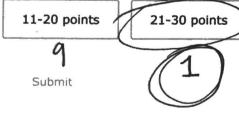
Jump a level

not recorded



10 west bor?

Which rating range was achieved by the fewest restaurants?



31-40 points

10

41-50 points

8

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Eighth grade

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Questions

12

Time elansed

32 MIN SEC

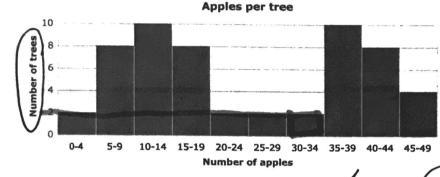
**SmartScore** out of 100 1

Teacher oreview

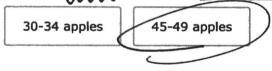
Jump a level

Teacher results not recorded

A farmer counted the number of apples on each tree in his orchard.



Are there more trees that have 30-34 apples or trees that have 45-49 apples?



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