

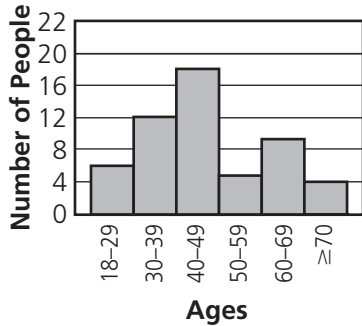
Contents

Lesson 1	Statistics: Measures of Central Tendency	4
Lesson 2	More Statistics.	6
Lesson 3	Sampling	8
Lesson 4	Frequency Distributions	10
Lesson 5	Double Bar Graphs	12
Lesson 6	Multiple Line Graphs.	14
Lesson 7	Stem-and-Leaf Plots	16
Lesson 8	Box-and-Whisker Plots	18
Lesson 9	More Box-and-Whisker Plots	20
Lesson 10	Histograms	22
Lesson 11	More Histograms	24
Lesson 12	Circle Graphs	26
Lesson 13	Making Circle Graphs	28
Lesson 14	Scatterplots.	30
Lesson 15	Misleading Statistics and Graphs	32
Lesson 16	Venn Diagrams.	34
Lesson 17	Sample Space	36
Lesson 18	Independent Probability.	38
Lesson 19	Permutations	40
Lesson 20	Combinations.	42
Lesson 21	Dependent Probability	44
Lesson 22	Experimental Probability	46
	How to Answer Constructed Response Questions.	48

LESSON 10 Histograms

A **histogram** is a graph that shows the frequency of something broken down in continuous intervals.

AGES OF SURVEY RESPONDERS



The scale on the horizontal axis shows the intervals represented by the bars. Each interval begins where the previous interval ends.

The scale on the vertical axis shows the frequency. The height of each bar tells how many people are in the age intervals shown.

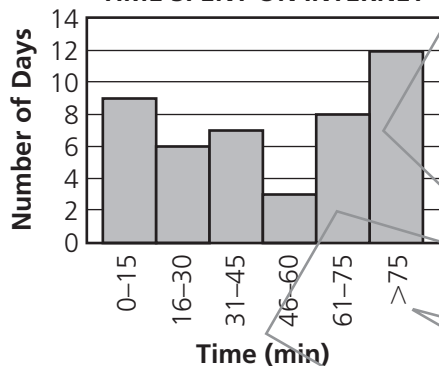
An **interval** is part of a range. Intervals are usually the same size.

Continuous intervals have no gaps between them.

Read each problem. Circle the letter of the best answer.

Use this histogram to answer questions 1–4.

TIME SPENT ON INTERNET



1 What interval is the median time located in?

- A 0–15 C 46–60
 B 31–45 D > 75

Count the number of days shown on this histogram by adding the heights of each bar: $9 + 6 + 7 + 3 + 8 + 12 = 45$. The median time occurs on the middle day, which is day 23. The first three bars represent 22 days, so day 23 is the first day in the fourth bar. This interval of time is 46–60 minutes. The correct answer is C.

2 What is the mode interval on this histogram?

- A 0–15
 B 31–45
 C 46–60
 D > 75

3 On how many days were more than 60 minutes spent on the Internet?

- A 8 C 20
 B 12 D 23

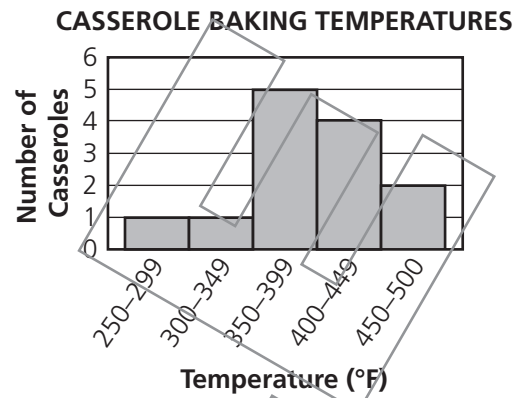
4 What interval shows three more days than the interval of 16–30 minutes?

- A 0–15
 B 31–45
 C 46–60
 D 61–75

Read each problem. Write your answers.

5 The baking temperatures for different casserole recipes are shown in this histogram.

A How many recipes are represented in the histogram?

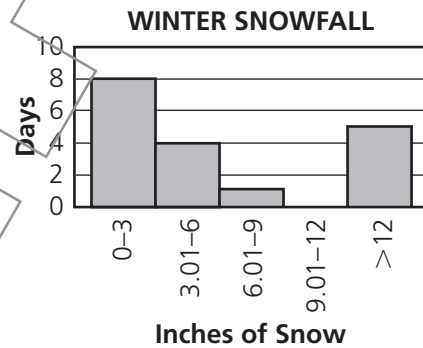


Answer: _____

B Explain how you know.

6 This histogram shows the inches of snow that fell during one winter.

A Name an amount of snowfall that could be the median of this data.



Answer: _____

B On what fraction of days were there more than 6 inches of snowfall?

Answer: _____

C Explain how you know your answer to part B is correct.
