

Percents Review ANSWER KEY

For problems 1-4, solve and SHOW YOUR WORK.

- 1) You can get a snack size of Jalapeño Cheetos that has 2.89 oz. or you can buy the regular size which has 9.75 oz. What **percent change** is that? Is it an increase or decrease?

237% increase

- 2) You go to Best Buy and buy a Play Station 4. It costs \$509.97. You must pay 6.5% sales tax. How much do you have to pay total?

\$543.12

- 3) Ms. Epps goes out to eat and spends \$33.45 on food. If she includes a tip and leaves a total of \$40.81, what percent tip did she leave?

22% tip

- 4) Ms. Schroeder invests her money wisely. She put \$10,500 into an IRA for 25 years at a rate of 3%. How much interest will she make?

\$7875

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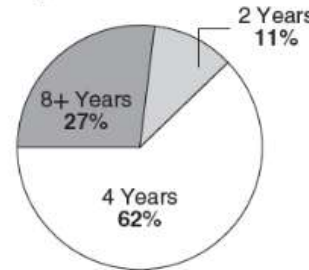
For questions 5 & 6, use the graph shown below. It displays the results of a survey about the number of siblings that people have.

- 5) Suppose 162 jobs are surveyed. How many jobs require a 2-year degree?

5) 17.82 jobs

- 6) Suppose 250 jobs are surveyed.
How many *more* jobs require 4 years of college than 8+ years?

Number of Years of College Required for Certain Jobs



6) 87.5 more

- 7) Ms. Pint spends her time surveying students during passing time while not teaching. She surveyed students ages 13 to 18 who read a newspaper at least once a week and asked, "How many minutes a day, on average, do you spend reading the newspaper?" The results are shown in the histogram below.

- a) What percent of students said they read a newspaper for less than 30 minutes?

$$\frac{89}{130} = 68\%$$

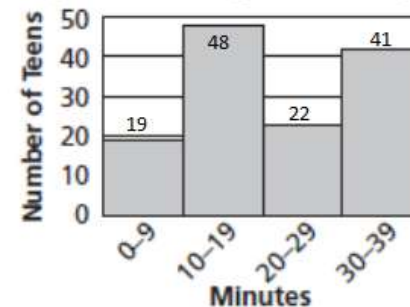
- b) Suppose Ms. Pint surveyed 350 students. How many would you **predict** would have read for 10-19 minutes?

about 129 students

- c) Of the 350 students Ms. Pint plans to survey, **predict** how many students will read for 20 minutes or more.

about 170 students

Time Spent Reading the Newspaper



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8) Using the table of tornado data, calculate the mean, median, and range.

Year	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Number of Tornadoes	1148	1417	1342	1071	1216	941	1367	1819	1264	1106	1074

a) Mean: 1,251.4 b) Median: 1,216 c) Mode: none d) Range: 878

b) What percent of the years had more than 1,000 tornados?

91% of the years

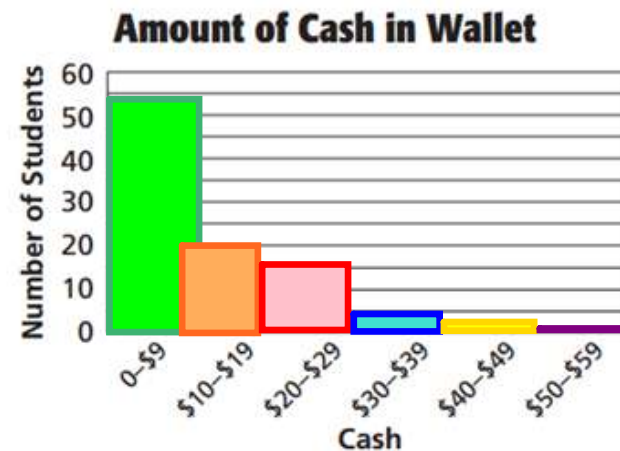
10 years higher than 1,000

11 years total

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- 9) a) Use the information in the table for the amount of money students carry to display the data in a histogram.

Amount	Number of Students
0-\$9	54
\$10-\$19	20
\$20-\$29	16
\$30-\$39	5
\$40-\$49	4
\$50-\$59	1



- b) How many students carry at least \$20 each day?

$$16 + 5 + 4 + 1 = 26 \text{ students}$$

- c) What percent of students carry no more than \$19 each day?

$$74\%$$

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Multiple Choice: For Questions 10 and 11, use the histogram at the right.

10) How many people rented fewer than 10 video per month?

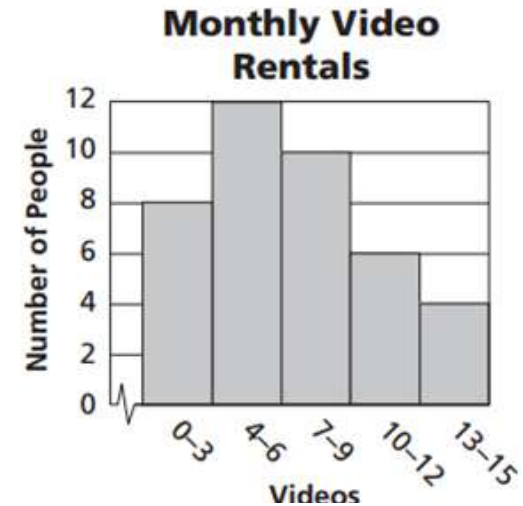
A. 10 B. 12

C. 18 **D. 30**

11) How many people were surveyed?

A. 12 **B. 40**

B. 50 D. 70



12) Juan's test scores for Semester 1 are show in the table. What would happen to the mean if his teacher eliminates his lowest test score?

<i>Scores by percent</i>	78%	89%	100%	42%	79%
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A. Mean goes up

B. Mean stays the same

C. Mean goes down

D. Mean doubles