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Self-Check Quizzes

IMPACT Mathematics - Course 2

Lesson 8-4

Interpreting and Applying Proportions

1. At the Truman Middle School, the lunch supervisor surveyed the 110 students in the seventh grade to find which school lunch they liked best. The table below shows the results. Which ratio is a part-to-part ratio?

Lunch	Number of Students Picking the Lunch that is Most Liked
Pizza	24
Hamburger	48
Tuna casserole	9
Turkey sandwich	29

- A. Seventeen more students preferred hamburgers than turkey sandwiches.
- B. Nine students preferred tuna casserole.
- C. $\frac{7}{10}$ of the students preferred either hamburgers or turkey sandwiches.
- D. 44% of the students preferred hamburgers.

[Hint](#)

2. During Little League baseball, the Tigers and the Cubs finished the season atop the division. The Tigers won 11 games and lost 4. Because of a couple of rainouts, the Cubs won 10 games and lost 3. Find percent of the games both teams won.

- A. Tigers 77%, Cubs 73% B. Tigers 27%, Cubs 23%
- C. Tigers 23%, Cubs 27% D. Tigers 73%, Cubs 77%

[Hint](#)

3. Of the 1,500 registered voters who were polled in the city, 46% said they would vote for Lerman for mayor and 42% said they would vote for McMahan. Suppose the number of registered voters in the city is 2 million. How many registered voters would you expect to support Lerman?

- A. 920,000 B. 630,000
 C. 840,000 D. 690,000

[Hint](#)

4. Of the 1,500 registered voters who were polled in the city, 46% said they would vote for Lerman for mayor and 42% said they would vote for McMahan. Suppose the number of registered voters in the city is 2 million. Assuming a 50% voter turnout, what percentage of the registered voters would you expect to actually vote for McMahan?

- A. 21% B. 50%
 C. 42% D. 23%

[Hint](#)

5. To estimate the number of white-tailed deer in Minnesota, biologists captured and tagged 650 deer and then released them back into the woods. One year later, the biologists captured 300 deer and counted 6 deer with tags. Estimate the actual number of deer in the forest.

- A. 29,050 B. 30,100
 C. 30,600 D. 32,500

[Hint](#)

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