

Problem Solving: Reading for Math

Check for Reasonableness

Choose the correct answer.

A group of 18 students goes to the amusement park. Of these students, $\frac{5}{6}$ go on the bumper cars. How many students go on the bumper cars?

1. What prior knowledge do you need in order to solve this problem?
 - A $\frac{5}{6}$ means 5 of 6 equal parts.
 - B $\frac{5}{6}$ is less than 1.
 - C $\frac{5}{6}$ is greater than $\frac{1}{6}$.
 - D 18 is divisible by 9.
2. A reasonable answer for this problem would be
 - F greater than 18.
 - G less than 3.
 - H greater than 3 but less than 9.
 - J greater than 9 but less than 18.

Fun Time International has 16 amusement parks. Of these amusement parks, $\frac{3}{4}$ are in the United States. There is a Fun Time Amusement Park in France. How many Fun Time Amusement Parks are in the United States?

3. Which information is not needed in order to solve the problem?
 - A Fun Time has 16 amusement parks.
 - B Of Fun Time's amusement parks, $\frac{3}{4}$ are in the United States.
 - C Fun Time has an amusement park in France.
 - D All of the above
4. A reasonable answer for this problem would be that Fun Time has
 - F 16 amusement parks in the United States.
 - G 12 amusement parks in the United States.
 - H 4 amusement parks in the U.S
 - J no amusement parks in the U.S.

Nick spends 2 hours in the amusement park. He spends $\frac{2}{3}$ of his time on rides. How many minutes does Nick spend on rides?

5. Which of the following information is important to solve the problem?
 - A There are 24 hours in 1 day.
 - B Nick goes on 4 rides.
 - C There are 60 minutes in an hour.
 - D There are 36 rides in the amusement park.
6. A reasonable answer for this problem would be
 - F 2 hours.
 - G more than 60 minutes but less than 120 minutes.
 - H greater than 20 minutes but less than 1 hour.
 - J less than 20 minutes.