Rounding Worksheets

1. Empire Elementary School needs to purchase water bottles for field day. There are 2,142 students. Principal Vadar rounded to the nearest hundred to estimate how many water bottles to order. Will there be enough water bottles for everyone? Explain.

2. Opening day at the New York State Fair in 2012 had an attendance of 46,753. Decide which place value to round 46,753 to if you were writing a newspaper article. Round the number and explain why it is an appropriate unit to round the attendance to.

3. A jet air plane holds about 65,000 gallons of gas. It uses about 7,460 gallons when flying between New York City and Los Angeles. Round each number to the largest place value. Then find out about how many trips the plane can take between cities before running out of fuel?

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1. Empire Elementary School needs to purchase water bottles for field day. There are 2,142 students. Principal Vadar rounded to the nearest hundred to estimate how many water bottles to order. Will there be enough water bottles for everyone? Explain.

$$2,142 \approx 2,100$$

There will not be enough water bottles because 2,142 rounded to the nearest hundred is 2,100. If Principal Vadar orders 2,100, there will be 42 students without water.

2. Opening day at the New York State Fair in 2012 had an attendance of 46,753. Decide which place value to round 46,753 to if you were writing a newspaper article. Round the number and explain why it is an appropriate unit to round the attendance to.

I would round 46,753 to the ten thousands place to get 50,000. For a newspaper article, saying approximately 50,000 were in attendance is a nice round number that is pretty close to the actual number.

3. A jet air plane holds about 65,000 gallons of gas. It uses about 7,460 gallons when flying between New York City and Los Angeles. Round each number to the largest place value. Then find out about how many trips the plane can take between cities before running out of fuel?

$$65,000 \approx 70,000$$
$$7,460 \approx 7,000$$

The plane can take about 10 trips between cities before running out of fuel because when I rounded, 70,000 is ten times as much as 7,000.

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