

Another Option for Interpreting Remainders

NCTM Standards 1, 2, 6, 7, 9

Decide what to do when there is a remainder—ignore it (round down), include it as a fraction or a decimal, or round up.

- 1 Four classes of fifth graders—a total of 107 students and adults—will travel by bus to Colonial Jamestown for a field trip. Forty-four people may ride on one bus. How many buses will be needed?

Solution: _____

What should you do about the remainder?

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- 2 180 people bought tickets to see a play. 22 people can fit in each row of seats. If the people fill in as many rows as possible, how many rows will have people seated in them?

Solution: _____

What should you do about the remainder?

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- 3 The Cape Cod ferry can take 30 cars at a time. How many trips must the ferry make to take 366 cars?

Solution: _____

What should you do about the remainder?

- 4 Ms. Lawrence wants to give some special pencils to her 26 students. If she orders 11 dozen pencils and wants to give each student the same number of pencils, how many pencils will each student get?

Solution: _____

What should you do about the remainder?

- 5 Marya was surprised when she saw on her pedometer that she had walked 135 miles in the last 30 days. If she walked about the same distance every day, about how many miles did she walk each day?

Solution: _____

What should you do about the remainder?

- 6 **Challenge** We laid pencils side by side until the total width was a whole number of inches. We found that 24 pencils, side by side, measured 7 inches. We found some boxes that were $3\frac{1}{2}$ inches wide and held only one layer of pencils. How many of the smaller boxes would we need to hold 100 pencils? Explain.

Solution: _____

What should you do about the remainder? _____