

WARM-UP

Problem 1 Do these mental math problems in your head. Discuss your strategy with your teammates; if two teammates used different strategies, discuss their respective merits.

- a) $(9 + 9 + 9) - (7 + 7 + 7) - (5 + 5 + 5) + (3 + 3 + 3) + (1 + 1 + 1)$
- b) $5 \times 6 + 5 \times 8 + 5 \times 7 - 5 \times 11$
- c) $\frac{4 \times 14 \times 26 \times 16 \times 9}{8 \times 7 \times 13 \times 8 \times 18}$

PROBLEMS

Problem 2 Do Activity 6C on page 116 of Beckmann.

Problem 3 Solve each of the following problems:

- a) Four pirates have 27 pieces of gold. They decide to split them evenly among themselves, with the captain getting the leftover pieces of gold, if any. How many pieces of gold will the captain get?
- b) Christelle is painting her room and she needs 27 gallons of paint. Paint comes in containers containing 4 gallons each. How many containers of paint does Christelle need to buy?
- c) Seth has 27 pieces of pizza. If every student eats 4 pieces of pizza, what is the largest number of students that Seth can feed?

Notice what you did with the remainder in each problem.

Problem 4 Do parts 1 and 2 of Activity 3L on page 50 of Beckmann.

Problem 5 Do Activity 4U on page 88 of Beckmann.

Problem 6 Do parts 1 and 2 of Activity 6H on page 120 of Beckmann.

Problem 7 Do parts 3 and 4 of Activity 6G on page 119 of Beckmann.

Problem 8 Do Activity 4N on page 79 of Beckmann.