

Name _____ Date _____

Part 4 Solving Problems
 Choose appropriate methods and tools to solve the following problems. Explain how you solved each problem.

- Over a four-day period, Frank watched 325 minutes of TV. He watched 60 minutes of TV on Monday, 45 minutes on Tuesday, and 75 minutes on Wednesday.
 - How many minutes did he watch on Thursday?
 - About how many hours of TV did he watch on Thursday?
- On Monday, Shannon watched 4 times the amount of TV as Luis.
 - If Luis watched TV for 45 minutes, how many minutes did Shannon watch?
 - How many hours did Shannon watch?
- Mrs. Dewey watched 45 minutes of TV on Monday, 35 minutes on Tuesday, and 1 hour on Wednesday. She did not watch TV on Thursday. What is the mean number of minutes of TV watched by Mrs. Dewey over the four-day period?
 - $60 \times 62 =$ **B.** $57 \times 73 =$
 - $67 \times 56 =$ **D.** $85 \times 94 =$
- Show or tell how you know your answer to Question 4D is reasonable.

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Part 5 Working with Remainders
 Show how you solved each of the following problems. Explain how any remainders affected your answer.

- Nine cereal boxes fit into one crate. How many crates are needed for 30 boxes of cereal?
- Twenty-one children try out for two teams. The children decided that anyone who is not selected will be an umpire. There are three umpires. How many children are on each of the two teams?
- Mrs. Roberts collected a total of \$273 from the 90 students who are going on a field trip. Each student brought in \$3. Is the total of \$273 the correct amount? Explain.
- Irma wants to read her 453-page book in 9 days. If she reads about the same number of pages each night, how many should she read a night?

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Part 4. Solving Problems

Questions 1–5 (TG p. 3)

- 145 minutes
 - About $2\frac{1}{2}$ hrs or between 2 and 3 hrs
- 180 minutes
 - 3 hours
- $(45 + 35 + 60 + 0) \div 4 = 35$ minutes
- 3720
 - 4161
 - 3752
 - 7990
- Possible response: $90 \times 90 = 8100$, which is close to 7990.

Part 5. Working with Remainders

Questions 1–4 (TG p. 4)

Explanations will vary.

- 4 crates; $30 \div 9 = 3$ crates R3 boxes. The remainder tells us that one more crate is needed to ship all the boxes.
- 9 children; $21 - 3 = 18$ children, $18 \div 2 = 9$ children
- No, the correct answer should be $90 \times 3 = \$270$. $\$273 - \$270 = \$3$; Mrs. Roberts collected \$3.00 too much.
- About 50 pages. Students can round 453 to 450. $450 \div 9 = 50$ pages. If Irma reads exactly 50 pages for 9 nights, she will have 3 pages left to read.

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Part 6. Multiplication and Division Practice

Questions 1–4 (TG p. 5)

1. A. 1869
 B. 48,032
 C. 1740
 D. 29,200
 E. 97 R4
 F. 89 R2
 G. 189 R1
 H. 77 R5
2. Possible response for Question 1B:
 $8 \times 6000 = 48,000$
 $8 \times 4 = 32$
 $48,000 + 32 = 48,032$
3. Possible strategy: 780 is close to 800;
 $8 \times 100 = 800$; so answer should be a little less than 100.
4. $6 \times 77 + 5 = 467$

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Part 6 Multiplication and Division Practice

Use paper and pencil or mental math to solve the following problems. If you need more space to show your work, you may use a separate sheet of paper. Estimate to make sure your answers are reasonable. Use the *Multiplication and Division Strategies Menus* in the Reference section of the *Student Guide*.

1. A. $267 \times 7 =$ B. $6004 \times 8 =$ C. $30 \times 58 =$ D. $73 \times 400 =$

E. $780 \div 8 =$ F. $269 \div 3 =$ G. $379 \div 2 =$ H. $467 \div 6 =$

2. Choose a problem from Question 1 and show how to solve it using mental math.

3. Explain your estimation strategy for Question 1E.

4. Write Question 1H as a multiplication problem using the divisor, quotient, and remainder in your answer.

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