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Part 3 Using Strategies to Subtract Larger Numbers

Choose a method to solve the following problems. Estimate to make sure your answers are reasonable. Use the *Subtraction Strategies Menu* in the Reference section of the *Student Guide*.

1.
$$\begin{array}{r} 3092 \\ - 1631 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 2002 \\ - 999 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 892 \\ - 647 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 5327 \\ - 1693 \\ \hline \end{array}$$

5. Look at your answer for Question 3. Is your answer reasonable? Show or tell how you know.

6. Use addition to check your answer for Question 4.

7. Explain a method for solving Question 2 in your head or with a few quick notes.

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Part 4 Problem Solving

1. Nisha has \$5.00 in her piggy bank. Her bank has only coins inside but no pennies. What coins could be in her bank that total \$5.00? Show at least two different coin combinations below.

2. Frank wants to visit his grandmother after his Little League game on Saturday. If the game ends at 11:35 and it takes twenty-five minutes to travel to his grandmother's house, what time will Frank arrive?

3. Mara needs fifty cents for the token machine at the carnival. The machine will only take quarters. She plans to use the coins from her piggy bank. Mara has the following coins in her piggy bank.

Mara's Bank	
Quarters	4
Nickels	7
Dimes	12
Pennies	2

A. How much money does Mara have in her piggy bank?

B. If Mara traded all of her coins for quarters how many quarters would she have? Show or tell how you found your answer.

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Part 3. Using Strategies to Subtract Larger Numbers (TG p. 2)

Questions 1–7

Strategies for solving will vary. Students can use mental math, base-ten pieces, or expanded form.

1. 1461
2. 1003
3. 245
4. 3634
5. Answers will vary. Possible response: 892 is about 900. 647 is about 650. $900 - 650 = 250$ so I know 245 is reasonable.
6. $3634 + 1693 = 5327$
7. Counting up: $999 (+ 1) = 1000$;
 $1000 (+ 1000) = 2000$;
 $2000 (+ 2) = 2002$;
 $1 + 1000 + 2 = 1003$

Part 4. Problem Solving (TG p. 3)

Questions 1–3

1. Answers will vary. Any combination of coins that equal \$5.00 is correct. Possible solutions include: 20 quarters; 50 dimes; 10 quarters and 25 dimes.
2. 12:00
3. A. \$2.57
 B. Possible response. Mara would have 10 quarters. I know there are 4 quarters in one dollar. Since Mara has \$2.00 that is 8 quarters. 50¢ more is 2 more quarters with 7¢ left.

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Part 5. Using Strategies to Add Larger Numbers (TG p. 4)

Questions 1–5

1. 3798
2. 7185
3. 1066
4. 4999
5. **A.** If I just add the thousands, $4000 + 2000$, and the hundreds, $300 + 800$, it is $6000 + 1100 = 7100$.
I know 7185 is reasonable.
- B.** Take 1 from 3001 and add it to 1998 to make 1999. 1999 is 1 away from 2000. $2000 + 3000 = 5000$ and then take away 1 equals 4999.

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Part 5. Using Strategies to Add Larger Numbers
Choose a method to solve the following problems. Estimate to make sure your answers are reasonable. Use the *Addition Strategies Menu* in the Reference section of the *Student Guide*.

1.
$$\begin{array}{r} 3091 \\ + 707 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 4357 \\ + 2828 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 359 \\ + 707 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 3001 \\ + 1988 \\ \hline \end{array}$$

5. **A.** Look at your answer for Question 2. Is your answer reasonable? Show or tell how you know.

B. Explain a method for solving Question 4 in your head or with a few quick notes.

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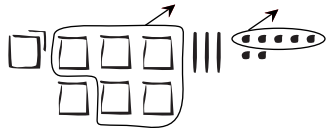
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Part 6. Problem Solving with Addition and Subtraction (TG p. 5)

Questions 1–3

1. **A.** 1132 miles
- B.** Possible response. I used base-ten shorthand.



$$1000 + 100 + 30 + 2 = 1132$$

2. **A.** 1088 miles
- B.** First I added $500 + 500 = 1000$. Then I added $1000 + 80 = 1080$. That is very close to 1088 so my answer is reasonable.
3. **A.** 549 miles
- B.** I used the paper-and-pencil method.

$$\begin{array}{r} 5 \ 12 \ 17 \\ 1 \ 0 \ 8 \ 8 \\ - 1 \ 0 \ 8 \ 8 \\ \hline 5 \ 4 \ 9 \end{array}$$

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Part 6. Problem Solving with Addition and Subtraction
Use strategies to solve these problems. Use the *Addition Strategies Menu* and the *Subtraction Strategies Menu* from the *Student Guide* Reference section.

1. Josh and Sam's family planned a summer trip to Flagstaff, Arizona. They used their computer to help map their route and found that the distance between their house and their hotel in Flagstaff was 1637 miles. On the first day of their trip they drove 505 miles.
 - A.** How many more miles do they have drive before getting to Flagstaff?
 - B.** Show or tell how you found your answer.
2. On the second day of they trip, Josh and Sam's family traveled another 583 miles.
 - A.** How many miles have they traveled so far?
 - B.** Show or tell how you can use estimation to prove that your answer is reasonable.
3. **A.** Use your answer to Question 2A to find how much further Josh and Sam's family has to travel before they will arrive in Flagstaff.
 - B.** Show or tell how you found your answer.

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