Name _____   Date _____

1. Determine the following sums and differences. Show your work.

   a. 41 min + 19 min = __1__ hr

   40 ⌢ 1   10 ⌢ 9

   40 + 10 = 50 ⎤
   1 + 9 = 10 ⎦ > 60 min

   b. 2 hr 21 min + 39 min = __3__ hr

   20 ⌢ 1   30 ⌢ 9

   20 + 30 = 50 ⎤
   1 + 9 = 10 ⎦ > 60 min

   c. 1 hr – 33 min = __27__ min

   60 – 33
     ↘↙
   27 min

   d. 3 hr – 33 min = __2__ hr __27__ min

   2hr ⌢ 60min
   60 – 33 = 27 min

   e. 31 sec + 29 sec = __1__ min

   30 ⌢ 1   20 ⌢ 9

   30 + 20 = 50 ⎤
   1 + 9 = 10 ⎦ > 60 sec

   f. 5 min – 15 sec = __4__ min __45__ sec

   4min 60sec
   60 – 15 = 45 sec

2. Find the following sums and differences. Show your work.

   a. 5 hr 30 min + 35 min = __6__ hr __5__ min

   30 5
   60min

   b. 3 hr 15 min + 5 hr 55 min = __9__ hr __10__ min

   10 5   60 min

   c. 4 hr 4 min – 38 min = __3__ hr __26__ min

   3hr 60min
   64 – 38 = 26 min

   d. 7 hr 3 min – 4 hr 25 min = __2__ hr __38__ min

   6hr 60min
   63 min – 25 min = 38 min

   e. 3 min 20 sec + 49 sec = __4__ min __9__ sec

   60 sec 40 9

   f. 22 min 37 sec – 5 min 58 sec = __16__ min __39__ sec
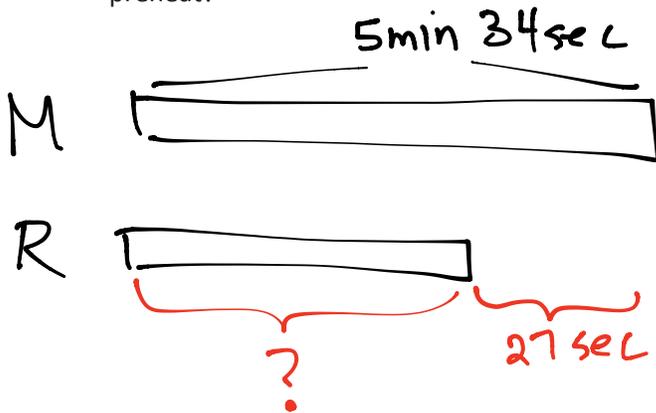
   21min 60sec
   97 – 58 = 39 sec

3. It took 5 minutes 34 seconds for Melissa's oven to preheat to 350 degrees. That was 27 seconds slower than it took Ryan's oven to preheat to the same temperature. How long did it take Ryan's oven to preheat?

5 min 34 sec

M

R

?   27 sec

5 min 34 sec − 27 sec = 5 min 7 sec

34 − 27 = 7 sec

Ryan's oven took 5 min 7 sec to preheat.

4. Joanna read three books. Her goal was to finish all three books in a total of 7 hours. She completed them, respectively, in 2 hours 37 minutes; 3 hours 9 minutes; and 1 hour 51 minutes.

   a. Did Joanna meet her goal? Write a statement to explain why or why not.

2 hr 37 min + 3 hr 9 min + 1 hr 51 min = 7 hr 37 min

6 hr   60 min

She took 37 minutes longer than her goal.

   b. Joanna completed the two shortest books in one evening. How long did she spend reading that evening? How long, with her goal in mind, did that leave her to read the third book?

2 hr 37 min + 1 hr 51 min = 4 hr 28 min

28   9

9 + 51 = 60 min

7 hr − 4 hr 28 min = 2 hr 32 min

6 hr 60 min

60 − 28 = 32 min

Joanna was left with 2 hr 32 min to read the book.