Name _____ Date _____

1. Find the equivalent measures.

a. 5 km = _____ m

b. 13 km = _____ m

c. _____ km = 17,000 m

d. 60 km = _____ m

e. 7 m = _____ cm

f. 19 m = _____ cm

g. _____ m = 2,400 cm

h. 90 m = _____ cm

2. Find the equivalent measures.

a. 7 km 123 m = _____ m

b. 22 km 22 m = _____ m

c. 875 km 4 m = _____ m

d. 7 m 45 cm = _____ cm

e. 67 m 7 cm = _____ cm

f. 204 m 89 cm = _____ cm

3. Solve.

a. 2 km 303 m − 556 m

b. 2 m − 54 cm

c. Express your answer in the smaller unit:
338 km 853 m + 62 km 71 m

d. Express your answer in the smaller unit:
800 m 35 cm − 154 m 49 cm

e. 701 km − 523 km 445 m

f. 231 km 811 m + 485 km 829 m

Date: 8/21/14

Use a tape diagram to model each problem. Solve using a simplifying strategy or an algorithm, and write your answer as a statement.

4. The length of Celia's garden is 15 m 24 cm. The length of her friend's garden is 2 m 98 cm more than Celia's. What is the length of her friend's garden?

5. Sylvia ran 3 km 290 m in the morning. Then, she ran some more in the evening. If she ran a total of 10 km, how far did Sylvia run in the evening?

6. Jenny's sprinting distance was 356 meters shorter than Tyler's. Tyler sprinted a distance of 1 km 3 m. How many meters did Jenny sprint?

7. The electrician had 7 m 23 cm of electrical wire. He used 551 cm for one wiring project. How many centimeters of wire does he have left?

Answer Key

1. a. 5,000
   b. 13,000
   c. 17
   d. 60,000
   e. 700
   f. 1,900
   g. 24
   h. 9,000
2. a. 7,123
   b. 22,022
   c. 875,004
   d. 745
   e. 677
   f. 20,489
3. a. 1,747 m or 1 km 747 m
   b. 146 cm or 1 m 46 cm
   c. 400,924 m
   d. 64,586 cm
   e. 177,555 m or 177 km 555 m
   f. 717640 m or 717 km 640 m
4. 1,822 cm or 18m 22cm
5. 6,710 m or 6km 710m
6. 647 m
7. 172 cm