Name _____ Date _____

1. Find the equivalent measures.

a. 5 km = 5000 m

b. 13 km = 13000 m

c. 17 km = 17,000 m

d. 60 km = 60000 m

e. 7 m = 700 cm

f. 19 m = 1900 cm

g. 24 m = 2,400 cm

h. 90 m = 9000 cm

2. Find the equivalent measures.

a. 7 km 123 m = 7,123 m

b. 22 km 22 m = 22,022 m

c. 875 km 4 m = 875,004 m

d. 7 m 45 cm = 745 cm

e. 67 m 7 cm = 6,707 cm

f. 204 m 89 cm = 20,489 cm

3. Solve.

a. 2 km 303 m – 556 m =

1 km 1303 m
− 556 m
1 km 747 m

b. 2 m – 54 cm =

1
2 m 100 cm
− 54 cm
1 m 46 cm

c. Express your answer in the smaller of the two units:
338 km 853 m + 62 km 71 m =

400 km 924 m
400,000 m + 924 m = 400,924 m

d. Express your answer in the smaller of the two units:
800 m 35 cm – 154 m 49 cm =

199 135
800 m 35 cm
− 154 m 49 cm
645 m 86 cm

645 m 86 cm
= 64500 cm + 86 cm
= 64586 cm

e. 701 km – 523 km 445 m =

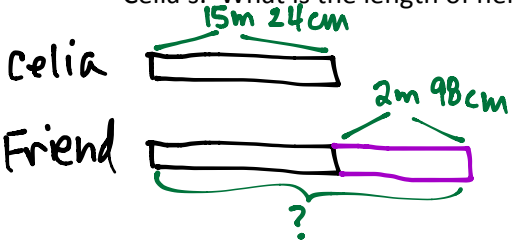
700 1000 m
701 km
− 523 km 445 m
177 km 555 m

f. 231 km 811 m + 485 km 829 m =

231 km 811 m
+ 485 km 829 m
716 km 1640 m
1000 640
717 km 640 m

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

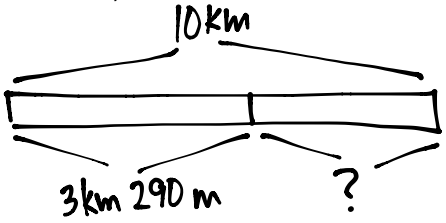
4. The length of Celia's garden is 15 m 24 cm. The length of her friend's garden is 2 m 98 cm more than Celia's. What is the length of her friend's garden?



15 m 24 cm
+ 2 m 98 cm
17m 122 cm
100 cm 22 cm

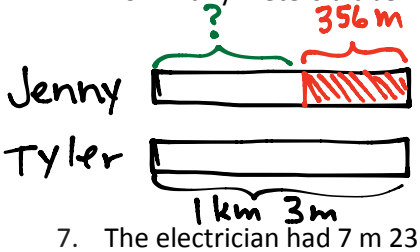
18m 22cm

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 she run in the evening?



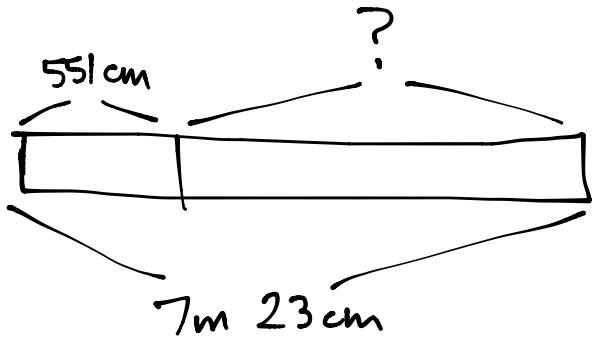
9
~~10~~ km 1000 m
- 3 km 290 m
6 km 710 m

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?



0 1003
~~1~~ km ~~3~~ m
- 356 m
647 m

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



7m 23 cm → 6 123
~~7~~m ~~23~~ cm
- 551 cm → - 5m 51 cm
1m 72 cm