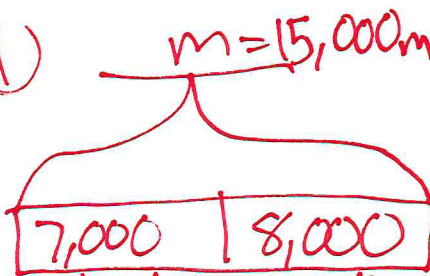$1 \text{ km} = 1,000 \text{ m}$

4. Jenny is training for a half marathon. For the problems below, use tape diagrams, numbers, and words to explain each answer.

a. Each day, Jenny runs on the treadmill for 7 kilometers and runs on the outdoor track for 8,000 meters. In all, how many meters does Jenny run each day?

① $m = 15,000 \text{ m}$

② $7 \text{ km} = 7,000 \text{ m}$
$$+ 8,000 \text{ m}$$
$$15,000 \text{ m}$$

③ Jenny runs 15,000 m each day.

7,000	8,000

treadmill   track

b. Since Jenny has started training, she has also been drinking more water. On Saturday, she drank 3 liters 344 milliliters of water. On Sunday, she drank some more. If Jenny drank a total of 6 liters 354 milliliters of water on Saturday and Sunday, how many milliliters of water did Jenny drink on Sunday?
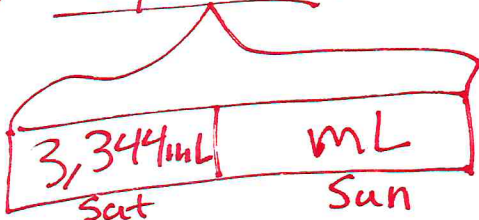
Sat $3 \text{ L } 344 \text{ mL} = 3,344 \text{ mL}$
Sun ?
Total $6 \text{ L } 354 \text{ mL} = 6,354 \text{ mL}$

① $6,354 \text{ mL}$

3,344 mL	mL

Sat   Sun

② $6,354 \text{ mL}$
$$- 3,344 \text{ mL}$$
$$3,010 \text{ mL}$$

Jenny drank 3,010 mL of water on Sunday.

c. Since she began exercising so much for his half marathon, Jenny has been losing weight. In her first week of training, she lost 1 kilogram 240 grams. In the following two weeks of training, she lost 2 kilogram 633 grams each week. Jenny now weighs 71 kilograms 540 grams. What was Jenny's weight, in grams, before she started training? Explain your thinking.

1st week: $1 \text{ kg } 240 \text{ g} = 1,240 \text{ g}$
2 weeks $2 \text{ kg } 633 \text{ g} = 2,633 \text{ g}$
$\phantom{2 \text{ weeks}} 2 \text{ kg } 633 \text{ g} = 2,633 \text{ g}$
Total $71 \text{ kg } 540 \text{ grams} = 71,540 \text{ g}$
$g = 78,046 \text{ g}$

①

1,240g	2,633g	2,633g	71,540g

② $2,633 \text{ g}$
$ 2,633 \text{ g}$
$ + 1,240 \text{ g}$
$ 6,506 \text{ g}$

$71,540 \text{ g}$
$+ 6,506 \text{ g}$
$78,046 \text{ g}$

③ Jenny's weight was 78,046 grams before she started training.