G4-W2-Lesson 2

1. Complete the conversion table.

M	ass
kg	g
3	3,000
5	5,000
7	7,000

I know that 1 kilogram equals 1,000 grams.

2. Convert the measurements.

a.
$$4 \text{ kg } 650 \text{ g} = 4.650 \text{ g}$$

b.
$$_{51} kg_{45} g = 51,045 g$$

In 51,945, there are 51 thousands 945 ones. 1 thousand grams equals 1 kilogram, so 51 thousand grams 945 grams equals 51 kilograms 945 grams.

3. Solve.

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a.
$$7 \text{ kg} - 860 \text{ g}$$

I make like units. 7 kilograms is equal to 7,000 grams.

$$7 \text{ kg} = 7,000 \text{ g}$$

Sample Student A Response:

I subtract grams from grams.

Sample Student B Response:

Just like in Lesson 1, I add up using the arrow way.

b. Express the answer in the smaller unit: 23 kg 625 g + 526 g.

Sample Student A Response:

Sample Student B Response:

I rename 23 kg 625 grams as grams before adding.



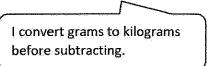
Lesson 2:

Express metric mass measurements in terms of a smaller unit; model and solve addition and subtraction word problems involving metric mass.

c. Express the answer in mixed units: 18 kg 604 g - 3,461 g.

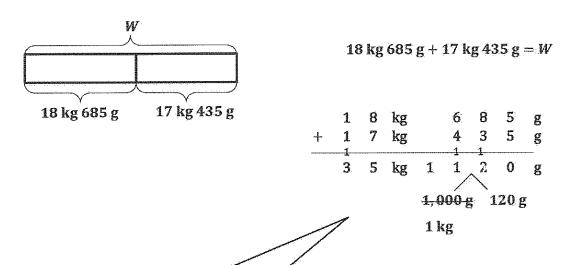
$$3,461 g = 3 kg 461 g$$

, manganan	peneg	8	kg kg	5 Ø 4	10 Ø 6	4 1	g
	1	5	kg	1	4	3	g



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

4. One crate of watermelon weighs 18 kilograms 685 grams. Another crate of watermelon weighs 17 kilograms 435 grams. What is their combined weight?



I can leave my answer as 35~kg 1,120 g, but I choose to rename in largest units. 1,120 g is equal to 1~kg 120 g.

36 kg 120 g

The combined weight of the crates of watermelon is 36 kg 120 g.

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