

ADDITION AND SUBTRACTION OF MASS

Learning objective:

- I am able to add and subtract length in kilograms and grams

Step to success:

- Write down a column for kg and a column for g
- Add or subtract from the grams first, then the kilograms.

LET'S REMEMBER!

Addition in length

$$5 \text{ m } 45 \text{ cm} + 21 \text{ m } 82 \text{ cm} \\ = 27 \text{ m } 47 \text{ cm}$$

We regroup to m
because we know
 $100\text{cm} = 1 \text{ m}$

$$\begin{array}{r} & \text{m} & \text{cm} \\ & \swarrow & \searrow \\ 21 & & 82 \\ + & 5 & 45 \\ \hline 27 & 47 \end{array}$$

Subtraction in length

$$15 \text{ m } 43 \text{ cm} - 9 \text{ m } 68 \text{ cm} \\ = 5 \text{ m } 75 \text{ cm}$$

We regroup to m
because we know
 $1 \text{ m} = 100 \text{ cm}$

$$\begin{array}{r} & \text{m} & \text{cm} \\ & \swarrow & \searrow \\ 15 & 43 \\ - & 9 & 68 \\ \hline 5 & 75 \end{array}$$

It is very similar when adding and subtracting mass in kilograms and grams

Instead of having two spaces for metres, we will have 3 spaces in the back for grams, because
 $1 \text{ kg} = 1000 \text{ g}$

Addition in mass

$$1 \text{ kg } 50 \text{ g} + 7 \text{ kg } 405 \text{ g} \\ = 8 \text{ kg } 455 \text{ g}$$

$$\begin{array}{r} & \text{kg} & \text{g} \\ & \swarrow & \searrow \\ 1 & 0 & 50 \\ + & 7 & 405 \\ \hline 8 & 455 \end{array}$$

We add zero because the grams can have up to 3-digits

$$3 \text{ kg } 490 \text{ g} + 8 \text{ kg } 735 \text{ g} \\ = 12 \text{ kg } 225 \text{ g}$$

$$\begin{array}{r} & \text{kg} & \text{g} \\ & \swarrow & \searrow \\ 3 & 490 \\ + & 8 & 735 \\ \hline 12 & 225 \end{array}$$

We regroup to kg because
 $1000 \text{ g} = 1 \text{ kg}$

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Subtraction in mass

$$13 \text{ kg } 460 \text{ g} - 10 \text{ kg } 30 \text{ g} \\ = 3 \text{ kg } 430 \text{ g}$$

$$\begin{array}{r} \text{kg} \quad \text{g} \\ \hline 13 & 460 \\ - 10 & 030 \\ \hline 03 & 430 \end{array}$$

$$19 \text{ kg } 260 \text{ g} - 13 \text{ kg } 855 \text{ g} \\ = 5 \text{ kg } 405 \text{ g}$$

$$\begin{array}{r} \text{kg} \quad \text{g} \\ \hline 8 & 12510 \\ 19 & 260 \\ - 13 & 855 \\ \hline 05 & 405 \end{array}$$

We regroup 1 kg into 1000 g

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ADDITION OF MASS

1 $9 \text{ kg } 380 \text{ g} + 17 \text{ kg } 620 \text{ g}$
= ___ kg ___ g

kg	g
9	380
+	17
<hr/>	
<hr/>	

2 $14 \text{ kg } 720 \text{ g} + 8 \text{ kg } 115 \text{ g}$
= ___ kg ___ g

kg	g
14	720
+	8
<hr/>	
<hr/>	

3 $16 \text{ kg } 354 \text{ g} + 18 \text{ kg } 408 \text{ g}$
= ___ kg ___ g

kg	g
16	354
+	18
<hr/>	
<hr/>	

4 $13 \text{ kg } 519 \text{ g} + 9 \text{ kg } 801 \text{ g}$
= ___ kg ___ g

SUBTRACTION OF MASS

1 $21 \text{ kg } 450 \text{ g} - 13 \text{ kg } 130 \text{ g}$
= ___ kg ___ g

kg	g
21	450
-	13
<hr/>	
<hr/>	

2 $18 \text{ kg } 784 \text{ g} - 15 \text{ kg } 50 \text{ g}$
= ___ kg ___ g

kg	g
18	784
-	15
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3 $18 \text{ kg } 145 \text{ g} - 6 \text{ kg } 810 \text{ g}$
= ___ kg ___ g

kg	g
18	145
-	6
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4 $27 \text{ kg } 120 \text{ g} - 25 \text{ kg } 250 \text{ g}$
= ___ kg ___ g