

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 $100\text{cm} = 1 \text{ m}$

←	m	cm
	21	82
↗	+	5 45
	27	47

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 $1 \text{ m} = 100 \text{ cm}$

←	m	cm
		13 cm
	15	43
	4	13
↗	-	9 68
	5	75

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

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

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

←	kg	g
	1	050
↗	+	7 405
	8	455

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

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

←	kg	g
	3	490
↗	+	8 735
	12	225

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Subtraction in mass

$$\begin{array}{r} 13 \text{ kg } 460 \text{ g} - 10 \text{ kg } 30 \text{ g} \\ = 3 \text{ kg } 430 \text{ g} \end{array}$$

	kg	g
	13	460
—	10	030
	03	430

$$\begin{array}{r} 19 \text{ kg } 260 \text{ g} - 13 \text{ kg } 855 \text{ g} \\ = 5 \text{ kg } 405 \text{ g} \end{array}$$

We regroup 1 kg into 1000 g

	kg	g
	19	260
	8	12510
—	13	855
	05	405

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ADDITION OF MASS

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

	kg	g
	9	380
+	17	620

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

	kg	g
	14	720
+	8	115

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

	kg	g
	16	354
+	18	408

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

SUBTRACTION OF MASS

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

	kg	g
	21	450
-	13	130

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

	kg	g
	18	784
-	15	50

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

	kg	g
	18	145
-	6	810

4 $27 \text{ kg } 120 \text{ g} - 25 \text{ kg } 250 \text{ g}$
 $= \text{ --- kg --- g}$