

Metric Mass Worksheets (kg, g)

1. Complete the conversion table.

Mass	
kg	g
1	1,000
3	
	4,000
17	
	20,000
300	

2. Convert the measurements.

a. $1 \text{ kg } 500 \text{ g} = \underline{\hspace{2cm}} \text{ g}$

b. $3 \text{ kg } 715 \text{ g} = \underline{\hspace{2cm}} \text{ g}$

c. $17 \text{ kg } 84 \text{ g} = \underline{\hspace{2cm}} \text{ g}$

d. $25 \text{ kg } 9 \text{ g} = \underline{\hspace{2cm}} \text{ g}$

e. $\underline{\hspace{1cm}} \text{ kg } \underline{\hspace{1cm}} \text{ g} = 7,481 \text{ g}$

f. $210 \text{ kg } 90 \text{ g} = \underline{\hspace{2cm}} \text{ g}$

3. Solve.

a. $3,715 \text{ g} - 1,500 \text{ g}$

b. $1 \text{ kg} - 237 \text{ g}$

c. Express the answer in the smaller unit:
 $25 \text{ kg } 9 \text{ g} + 24 \text{ kg } 991 \text{ g}$

d. Express the answer in the smaller unit:
 $27 \text{ kg } 650 \text{ g} - 20 \text{ kg } 990 \text{ g}$

e. Express the answer in mixed units:
 $14 \text{ kg } 505 \text{ g} - 4,288 \text{ g}$

f. Express the answer in mixed units:
 $5 \text{ kg } 658 \text{ g} + 57,481 \text{ g}$

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1. Complete the conversion table.

Mass	
kg	g
1	1,000
3	3,000
4	4,000
17	17,000
20	20,000
300	300,000

2. Convert the measurements.

- a. $1 \text{ kg } 500 \text{ g} = \underline{1,500 \text{ g}}$
- b. $3 \text{ kg } 715 \text{ g} = \underline{3,715 \text{ g}}$
- c. $17 \text{ kg } 84 \text{ g} = \underline{17,084 \text{ g}}$
- d. $25 \text{ kg } 9 \text{ g} = \underline{25,009 \text{ g}}$
- e. $\underline{7 \text{ kg } 481 \text{ g}} = 7,481 \text{ g}$
- f. $210 \text{ kg } 90 \text{ g} = \underline{210,090 \text{ g}}$

3. Solve.

a. $3,715 \text{ g} - 1,500 \text{ g} = 2,215 \text{ g}$

$$1,500 \xrightarrow{+500} 2,000 \xrightarrow{+215} 2,215$$

b. $1 \text{ kg} - 237 \text{ g} = 763 \text{ g}$

$$237 \xrightarrow{+3} 240 \xrightarrow{+60} 300 \xrightarrow{+463} 763$$

c. Express the answer in the smaller unit:

$25 \text{ kg } 9 \text{ g} + 24 \text{ kg } 991 \text{ g} = 50,000 \text{ g}$

$$\begin{array}{r} 25,009 \text{ g} \\ + 24,991 \text{ g} \\ \hline 50,000 \text{ g} \end{array}$$

d. Express the answer in the smaller unit:

$27 \text{ kg } 650 \text{ g} - 20 \text{ kg } 990 \text{ g} = 6,660 \text{ g}$

$$\begin{array}{r} 27,650 \text{ g} \\ - 20,990 \text{ g} \\ \hline 6,660 \text{ g} \end{array}$$

e. Express the answer in mixed units:

$14 \text{ kg } 505 \text{ g} - 4,288 \text{ g} = 10 \text{ kg } 217 \text{ g}$

$$\begin{array}{r} 14 \text{ kg } 505 \text{ g} \\ - 4 \text{ kg } 288 \text{ g} \\ \hline 10 \text{ kg } 217 \text{ g} \end{array}$$

f. Express the answer in mixed units:

$5 \text{ kg } 658 \text{ g} + 57,481 \text{ g} = 63 \text{ kg } 139 \text{ g}$

$$\begin{array}{r} 5 \text{ kg } 658 \text{ g} \\ + 57 \text{ kg } 481 \text{ g} \\ \hline 62 \text{ kg } 1139 \text{ g} \\ \hline 63 \text{ kg } 139 \text{ g} \end{array}$$