

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Complete the table.

| Mass |         |
|------|---------|
| kg   | g       |
| 1    | 1,000   |
| 6    | 6,000   |
| 8    | 8,000   |
| 15   | 15,000  |
| 24   | 24,000  |
| 550  | 550,000 |

2. Find the equivalent measures.

- a. 2 kg 700 g = 2,700 g
- b. 5 kg 945 g = 5,945 g
- c. 29 kg 58 g = 29,058 g
- d. 31 kg 3 g = 31,003 g
- e. 66,597 g = 66 kg 597 g
- f. 270 kg 41 g = 270,041 g

3. Solve.

a.  $370\text{ g} + 80\text{ g} =$  450 g

$$\begin{array}{r} 370\text{ g} \\ + 80\text{ g} \\ \hline 450\text{ g} \end{array}$$

c. Express the answer in the smaller unit:  
27 kg 547g + 694 g =

$$\begin{array}{r} 27\text{ kg } 547\text{ g} \\ + \phantom{27\text{ kg }} 694\text{ g} \\ \hline 27\text{ kg } 1241\text{ g} \\ \hline \text{28 kg } 241\text{ g} \end{array}$$

e. Express the answer in mixed units:  
4 kg 229 g - 355 g =

$$\begin{array}{r} 4\text{ kg } 229\text{ g} \\ - \phantom{4\text{ kg }} 355\text{ g} \\ \hline 3\text{ kg } 874\text{ g} \end{array}$$

b.  $5\text{ kg} - 730\text{ g} =$

$$\begin{array}{r} 5\text{ kg } 1000\text{ g} \\ - \phantom{5\text{ kg }} 730\text{ g} \\ \hline 4\text{ kg } 270\text{ g} \end{array}$$

d. Express the answer in the smaller unit:  
16 kg + 2,800 g =

$$\begin{array}{r} 16\text{ kg } + 2\text{ kg } 800\text{ g} \\ \hline 18\text{ kg } 800\text{ g} \end{array}$$

f. Express the answer in mixed units:  
70 kg 101 g - 17 kg 862 g =

$$\begin{array}{r} 70\text{ kg } 101\text{ g} \\ - 17\text{ kg } 862\text{ g} \\ \hline 52\text{ kg } 239\text{ g} \end{array}$$

Directions: 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 suitcase weighs 23 kg 696 g. Another suitcase weighs 25 kg 528 g. What is the total weight of the two suitcases?

5. A bag of potatoes and a bag of onions weigh 11 kg 15 g. If the bag of potatoes weighs 7 kg 300 g, how much does the bag of onions weigh?

6. The table below shows the weight of three dogs.

| Student | Weight   |
|---------|--|
| Lassie  | 21 kg 249 g  |
| Riley   | 23 kg 128 g  |
| Fido    | 21,268 g <span style="color: purple;">21 kg 268 g</span> |

What is the weight difference between the heaviest and lightest dog?