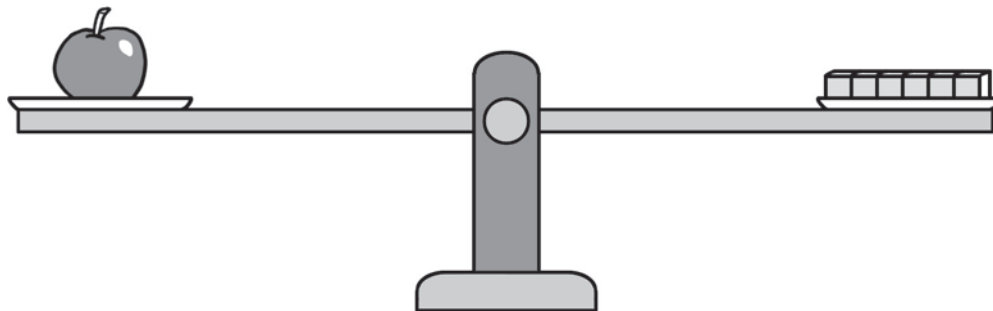### CHAPTER
8 Mass

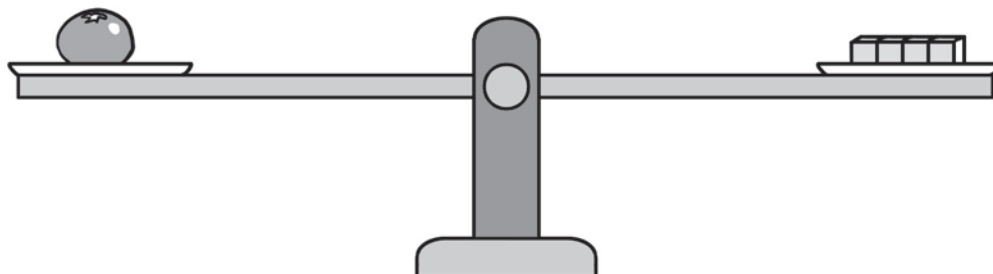## Worksheet 1   Measuring in Kilograms

Find the mass of each object.
1 ☐ represents 1 unit.

1.

The mass of the apple is about _____ units.

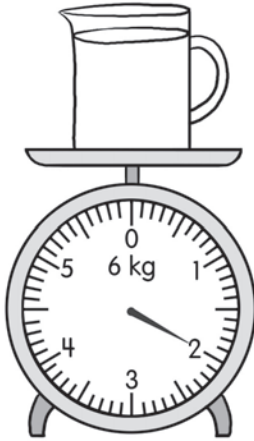2.

The mass of the tomato is about _____ units.

Circle the correct answer.

── Example ──
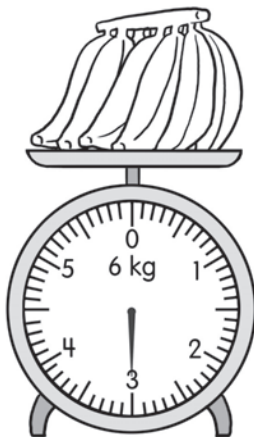

The jug of milk has a mass of ((2) / 3) kilograms.

> **The kilogram is a unit of mass.**
> **kg stands for kilogram.**
> **Read 1 kg as one kilogram.**
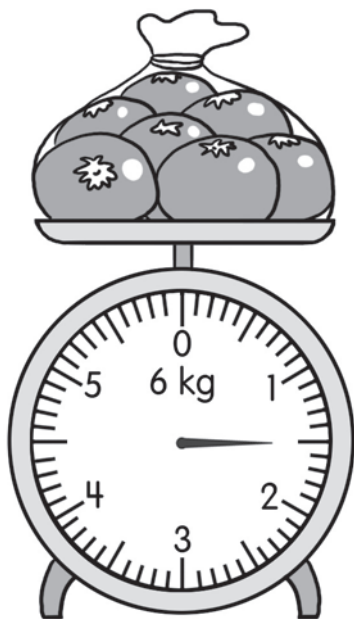> **A kilogram is used to measure the mass**
> **of heavier objects.**

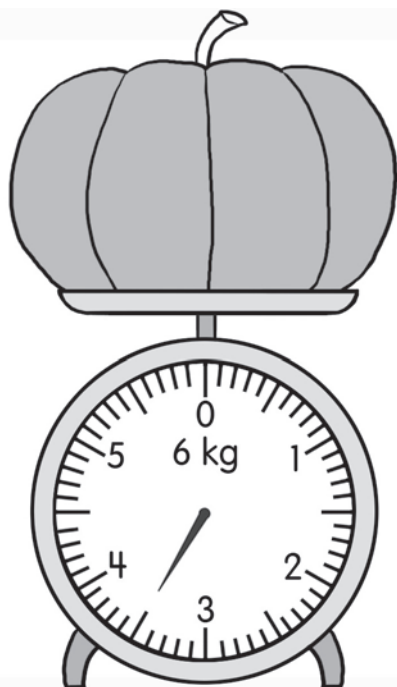**3.**

The bananas have a mass of (3 / 4) kilograms.

Example

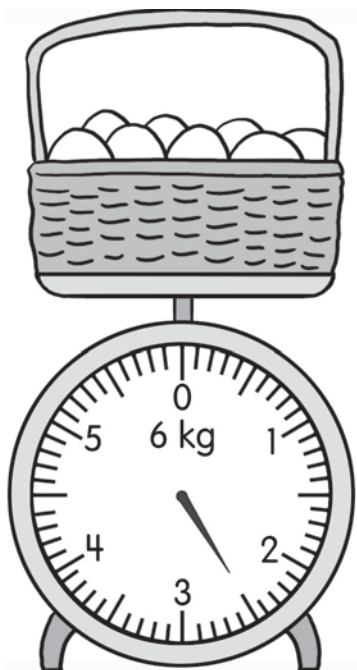The mass of the bag of tomatoes is less than (1 / ②)) kilograms.

4.

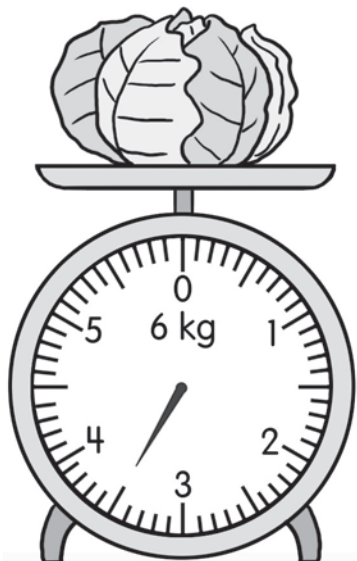The mass of the pumpkin is less than (3 / 4) kilograms.

Example

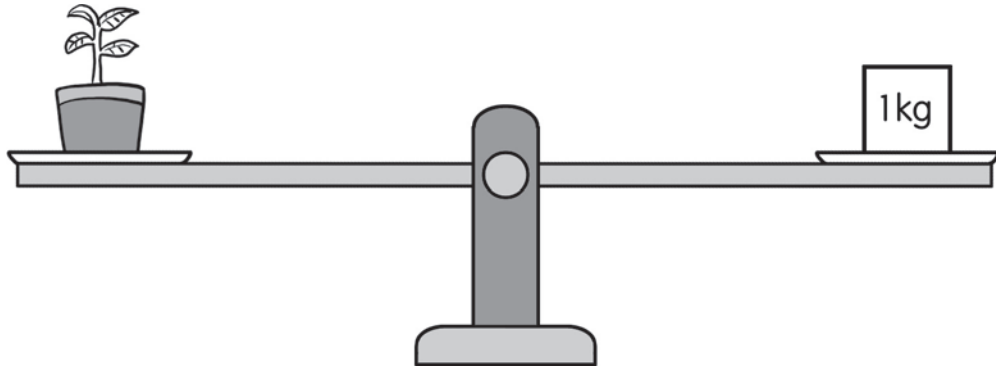The mass of the basket of eggs is more than (② / 3) kilograms.

5.

The mass of the cabbage is more than (3 / 4) kilograms.

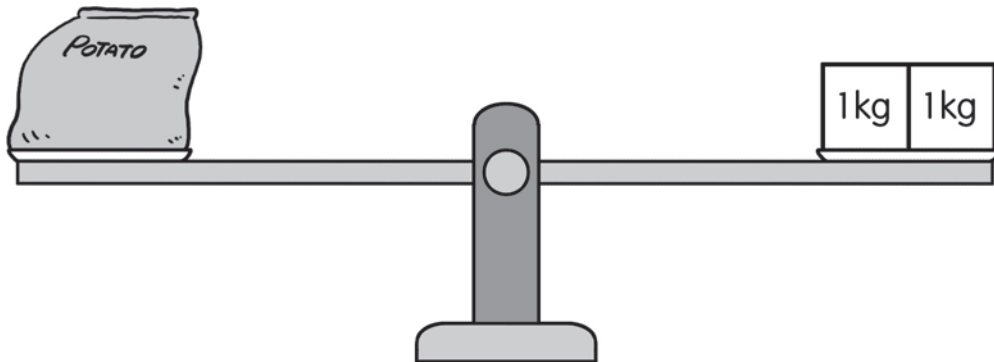**Find the mass of each object in kilograms.**

Example

The mass of the plant is _____1_____ kilogram.

6.
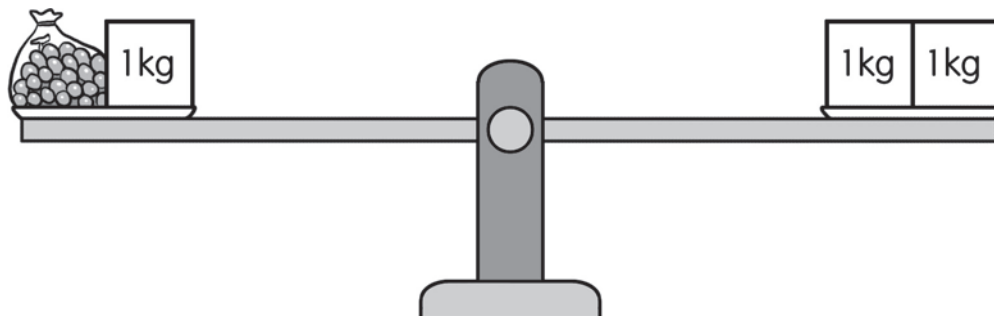

The mass of the bag of potatoes is _____ kilograms.

Subtract to find the mass of each object in kilograms.

Example

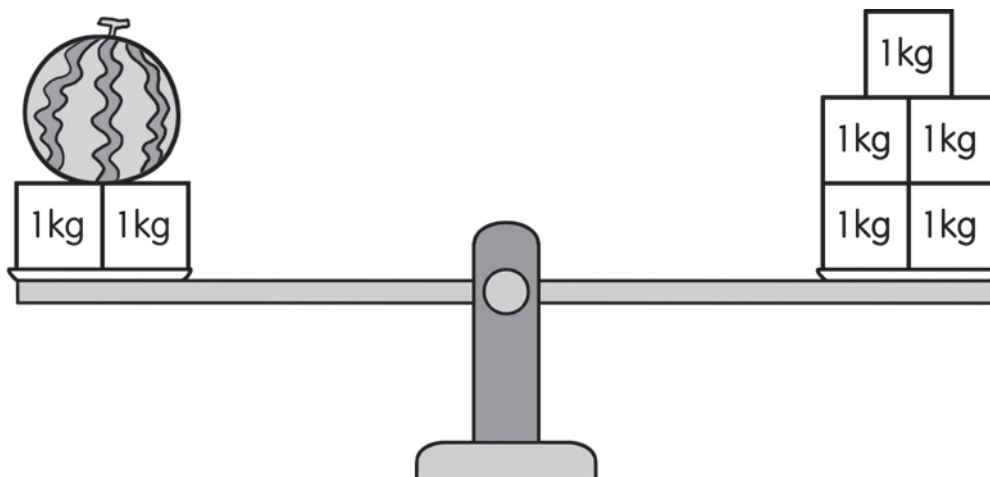$2 - 1 =$ _____1_____

The mass of the bag of grapes is _____1_____ kilogram.

7.

$5 - 2 =$ _____

The mass of the watermelon is _____ kilograms.

Worksheet 2   Comparing Masses in Kilograms
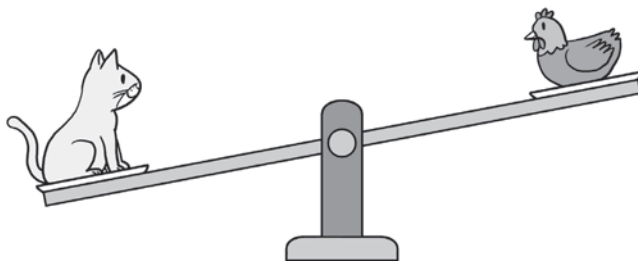
Look at the picture.
Write *heavier* or *lighter*.
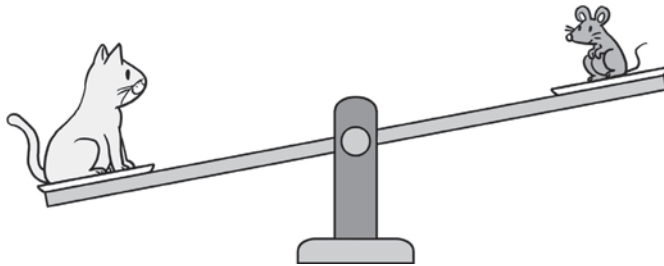
1.   The mouse is _____ than the cat.

2.   The cat is _____ than the mouse.

Write *True* or *False*.

3.   The cat is heavier than the hen. _____

4.   The cat is lighter than the hen. _____

5.   The cat is as heavy as the hen. _____

6.   The cat has the same weight as the hen. _____

Read the measuring scales to find the mass of each object.
Then answer the questions.
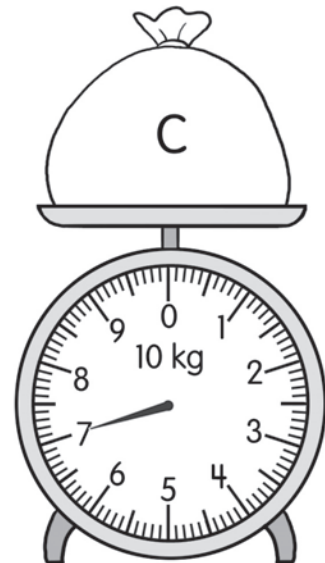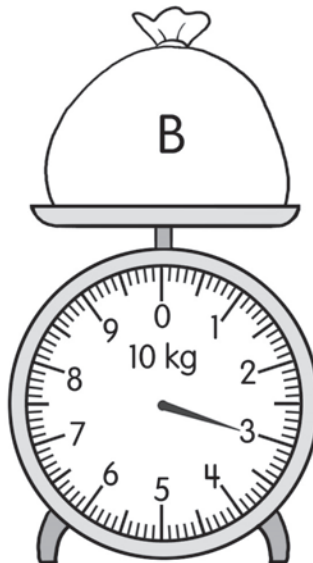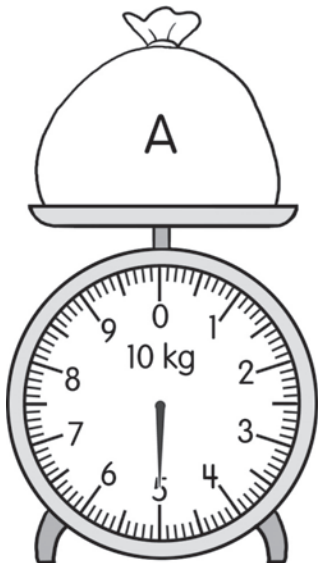
7.   The mass of Bag A is _____ kilograms.

8.   The mass of Bag B is _____ kilograms.

9.   Bag _____ is the lightest.

10. Bag _____ is the heaviest.

11. The total mass of the Bag A and Bag B is _____ kilograms.

12. Order the bags from heaviest to lightest.

_____, _____, _____
lightest

Worksheet 3   Measuring in Grams

Find the mass of each object in grams.

Example

The mass of the shoe is ___*20*___ grams.

> **The gram is a unit of mass.**
> **g stands for gram.**
> **Read 1 g as one gram.**
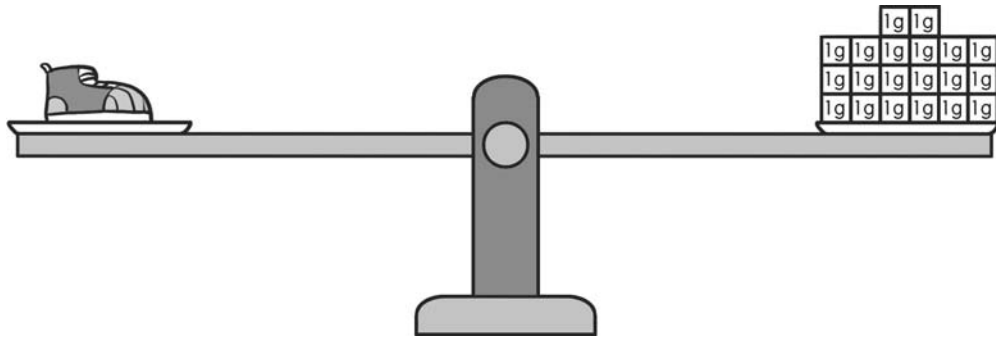> **A gram is used to measure the mass of lighter objects.**

1.
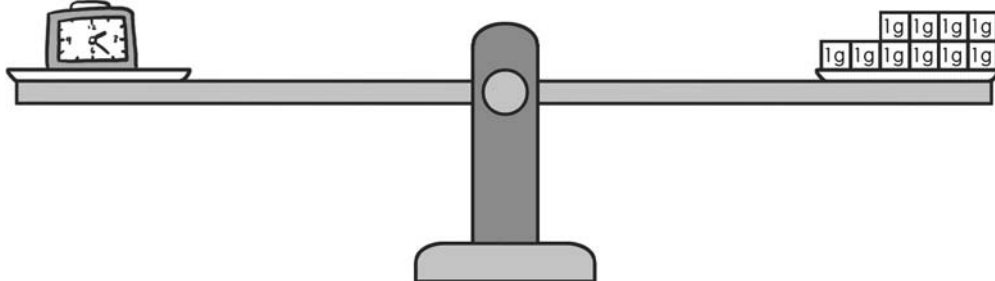
The mass of the clock is _____ grams.

Read the measuring scale to find the mass of each object.

Example
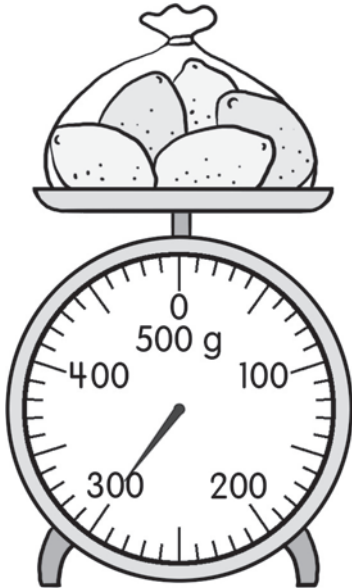
How do I read the measuring scale?

This measuring scale is used to measure mass less than 500 grams.
One small marking stands for 10 grams.

The mass of the bag of lemons is ___*300*___ grams.

2.

The mass of the bag of carrots is _____ grams.

3.

The mass of the puppy is _____ grams.

4.
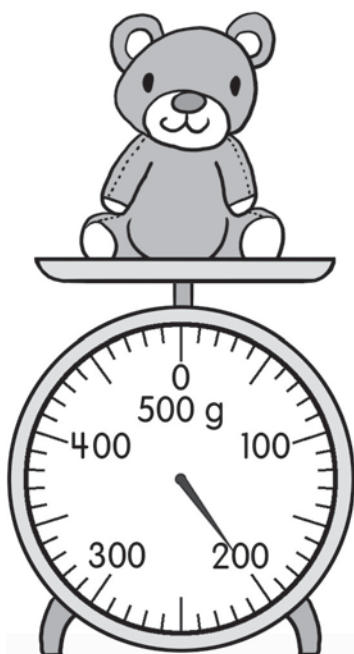
The mass of the teddy bear is _____ grams.

5.
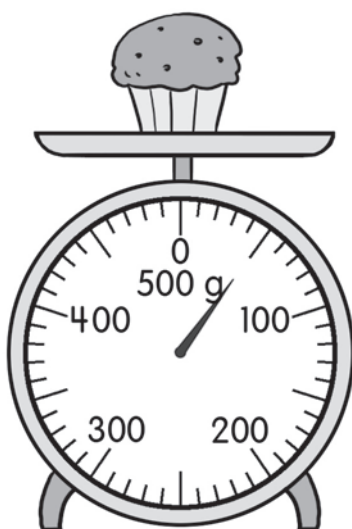
The mass of the muffin is _____ grams.

Name: _____   **Date:** _____

Worksheet 4   Comparing Masses in Grams

Look at the pictures.
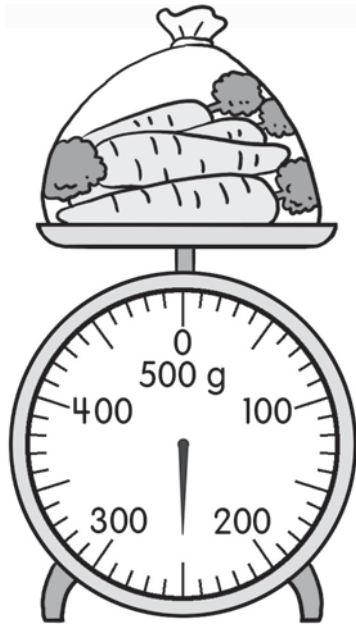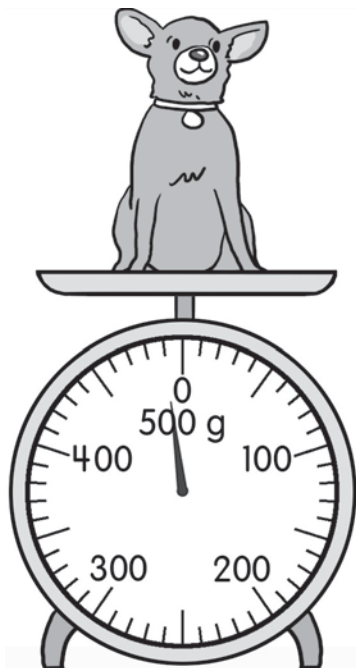**Then answer the questions.**
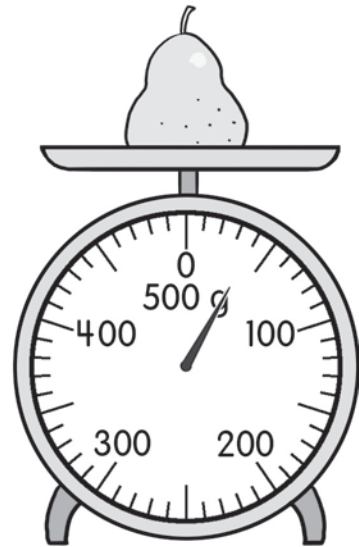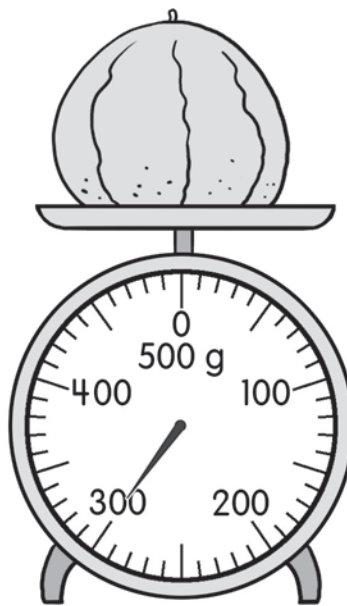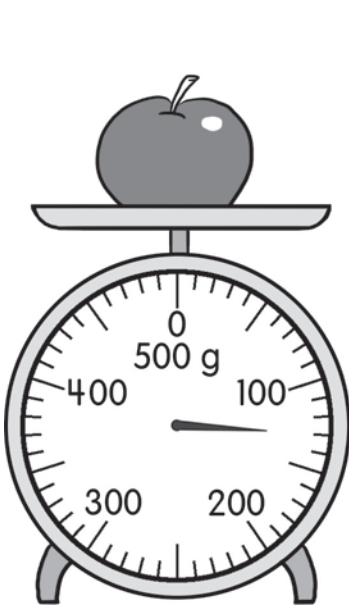
┌─ **Example** ───┐

    The mass of the apple is ____130____ grams.

└──┘

1.   The mass of the melon is _____ grams.

2.   The mass of the pear is _____ grams.

3.   The _____ is the lightest.

4.   The _____ is the heaviest.

5.   The total mass of the fruits is _____ grams.

Look at the pictures.
Then answer the questions.
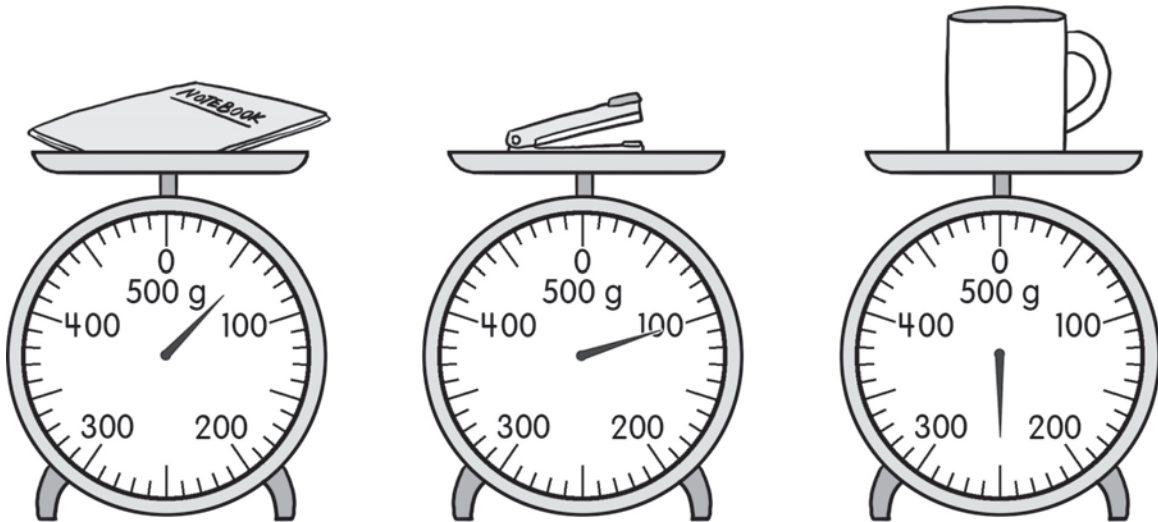
6.   The mass of the notebook is _____ grams.

7.   The mass of the stapler is _____ grams.

8.   The mass of the cup is _____ grams.

9.   250 – 100 = _____

The stapler is _____ grams lighter than the cup.

10.   250 – 60 = _____

The cup is _____ grams heavier than the notebook.

11.   Order the objects from heaviest to lightest.

_____, _____, _____
heaviest

Worksheet 5   Real-World Problems: Mass

Solve.
Use the bar models to help you.

┌─ **Example** ─────────────────────────────────────┐

Joseph and his suitcase weigh 94 kilograms in all.
Joseph weighs 67 kilograms.
What is the mass of the suitcase?

? kg	67 kg

94 kg
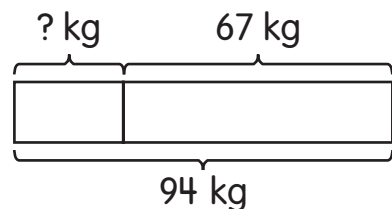
$94 - 67 =$ ___*27*___

The suitcase weighs ___*27*___ kilograms.

└──┘

1.   A grocer has 45 kilograms of onions.
     He sells 16 kilograms of onions.
     How many kilograms of onions does he have left?

16 kg

? kg

45 kg
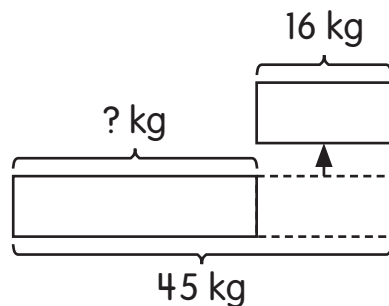
He has _____ kilograms of onions left.

Example

A box full of toy trains is 26 kilograms lighter than a box full of books.
The mass of the box of toy trains is 8 kilograms.
Find the total mass of the two boxes.

[34] kg

Books

Toy trains

? kg

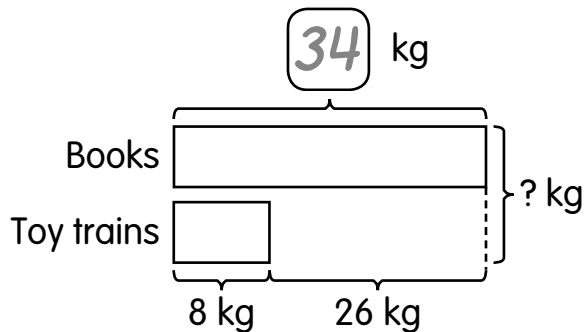8 kg   26 kg

The total mass of the two boxes is ___*42*___ kilograms.

2. Sarah has a mass of 48 kilograms.
She is 12 kilograms lighter than Ricky.
What is the total mass of Ricky and Sarah?

48 kg   12 kg

Sarah

Ricky

?

?
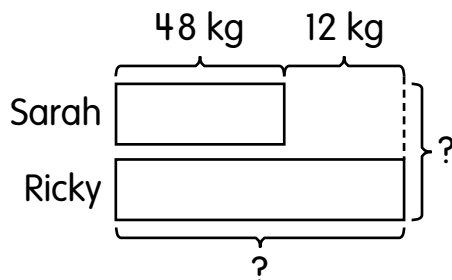
The total mass of Ricky and Sarah is _____ kilograms.

Solve.
Draw bar models to help you.

3.   A restaurant bought 140 kilograms of meat.
The chef cooked 45 kilograms of meat in the afternoon.
How many kilograms of meat were left?

_____ kilograms of meat were left.

4.   The mass of a box of potatoes is 950 grams.
The mass of the potatoes is 700 grams.
What is the mass of the box?

The mass of the box is _____ grams.

5. The mass of a table is 16 kilograms.
The mass of a chair is 12 kilograms less than the mass
of the table.
What is the total mass of the table and the chair?

The total mass of the table and the chair is _____ kilograms.

6. Duncan's toy box is 140 grams heavier than Pete's toy box.
The mass of Duncan's toy box is 500 grams.
What is the total mass of the two toy boxes.

The total mass of the two toy boxes is _____ grams.