**11** - 1

Weight

#### How to Read a Scale

**Instruction** Let's measure the weight of an object using a scale.

I. Put the scale on a flat surface.



2. At first, make sure the needle is at "0".



Check it

3. Stand directly in front of scale when reading it.



Scale showing the weight

- A unit called **gram** is used to measure weight.
- | gram is written as | g.

The weight of a one-yen coin is | g. Look for objects that weigh | g around you.



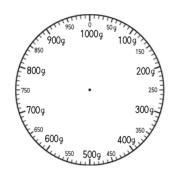
Example 1

Up to how many g can the scale on the right weigh?

1000 g

10

2 How many g does one mark on the scale represent?



Read the following scales and write the weight in the

A



500 g



160 g

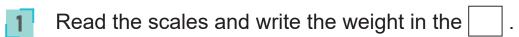
Oraw the needle showing the following weights on the scale.

C



D





0



2



g

3



4

g

g



g

5



6



g

2 Draw the needle on the scale to show the following weights.

g

**1** 600 g



2 750 g



3 90 g



4



5

370 g



6



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Weight

# Units of Weight ( )

Instruction Let's measure weight of an object using a scale.

- 1000 g is called | kilogram and is written as | **kg**.
- | kg = | 000 g.

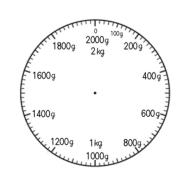
L of water weighs kg.



### • Example 1

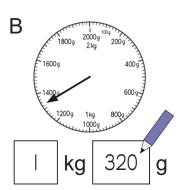
Up to how many kg can the scale on the right weigh? kg

How many g does the smallest mark on the scale represent? 20



3 How many kg and g does scale A and scaleB show?

Α 500 kg



g

How many kg and g does each scale show?



kg g



kg g

Weight

## **Units of Weight** (2)

Example 1 Convert the weights.

$$2050 g = \boxed{2} kg \boxed{50} g$$

1000 g is same as | kilogram and it can be written as | kg.



Example 2 Convert the weights to g or kg.

1 3 kg = 
$$3000 g$$

2 | kg 600 g = | 1600 | g

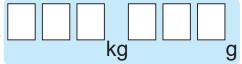


This is a tip for conversion. If you convert

1600 g, copy the numbers as it is.

l kg 600 g

Convert the weights to g or kg or kg and g.



$$1000 g = \boxed{kg}$$

$$\bigcirc$$
 3260 g = kg g

8 
$$3 \text{ kg } 400 \text{ g} = \boxed{\text{g}}$$

9 
$$2 \text{ kg } 78 \text{ g} = \boxed{ } \text{g}$$

$$9 \text{ kg } 5 \text{ g} = g$$

(13) 
$$7 \text{ kg } 275 \text{ g} = \boxed{\text{g}}$$

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Weight

#### **Relation between Units**

**Example 1** Fill in the with numbers.

with appropriate units of quantities.

1 Fill in the with numbers.

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Weight

## Units of Weight (3)

► Example 1 A small car weighs 1000 kg and a truck weighs 3100 kg. How much is the total weight?

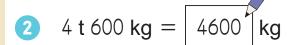
$$1000 \text{ kg} + 3100 \text{ kg} = 4100 \text{ kg}$$

| 1000 kg is called | tonne and written as |  $\mathbf{t}$ . |  $\mathbf{t} = 1000 \text{ kg}$ 

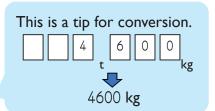


Example 2 Convert the weights to kg or t.

1 7000 kg = 
$$7$$
 t







A baby elephant at a zoo weights 1400 kg, and the mother elephant weights 4600 kg. What is their weight in total?

$$|400 \text{ kg} + 4600 \text{ kg} = \boxed{ \text{kg} = \boxed{ }} \text{t}$$

Convert the weights to kg or t or t and kg.

	ť		ka

kg

kg

1 1000 kg = 1

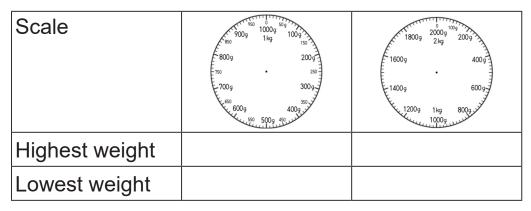
2 5000 kg = 
$$t$$

3 2500 kg = t kg 4 1160 kg = t

7 | t 700 kg = 
$$| kg |$$
 8 3 t 450 g =

# 11 - 6 Weight Review

What is the highest weight this scale and measure? What is the lowest? Fill in the table below.



2 Read the scales.

0

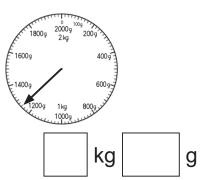


g

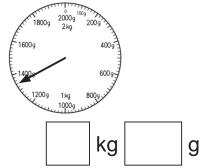


g

3



4

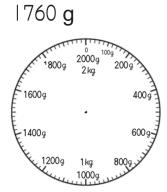


3 Draw the needle to show the following weights on the scale.

1



2



Convert the weights to g or kg or kg and g.

0	1000 g =	kg
		_

3 
$$3790 g = kg$$
  $g$ 

6 5 kg 50 g = 
$$g$$



**5** Complete the table below.

Kinds of Units	m	С	d		K
Length	mm	cm		l m	
Capacity	mL		dL	ΙL	
Weight				g	l kg

Fill in the with appropriate units of quantities.

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