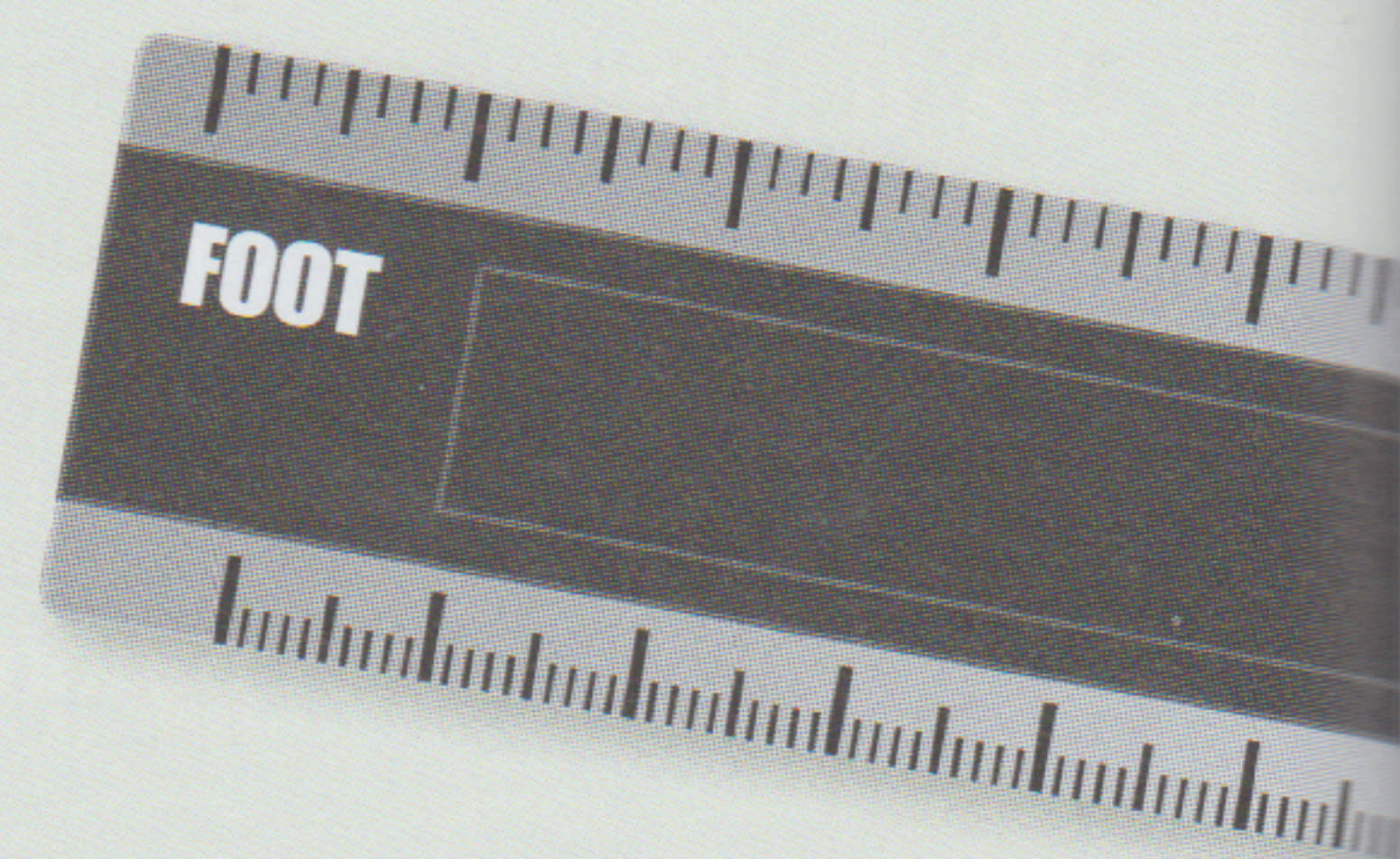
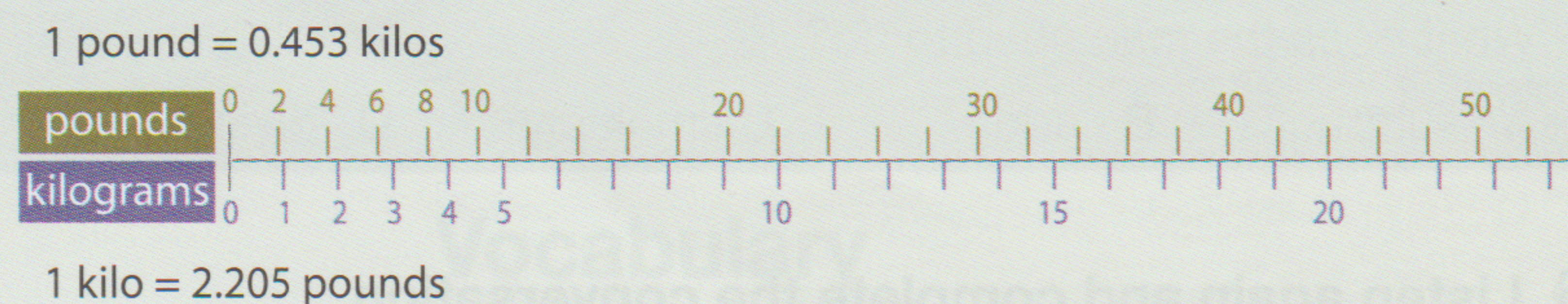
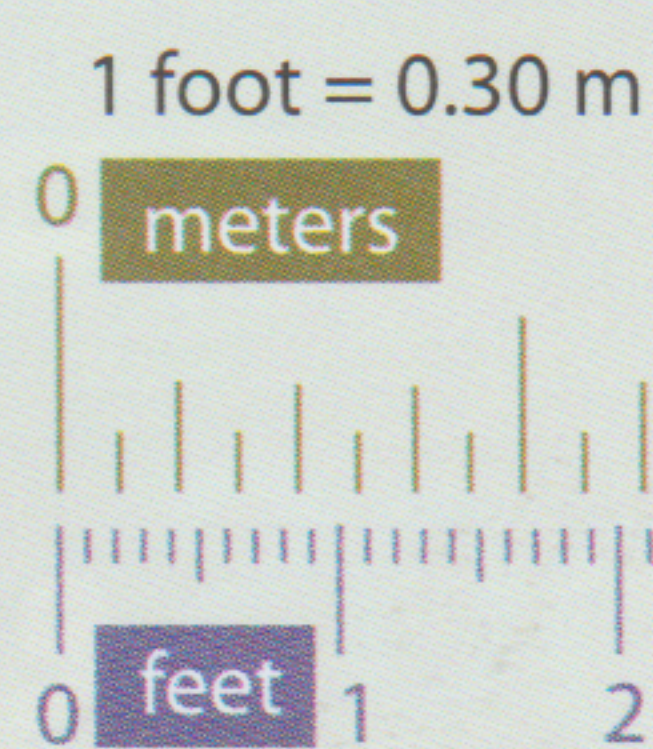
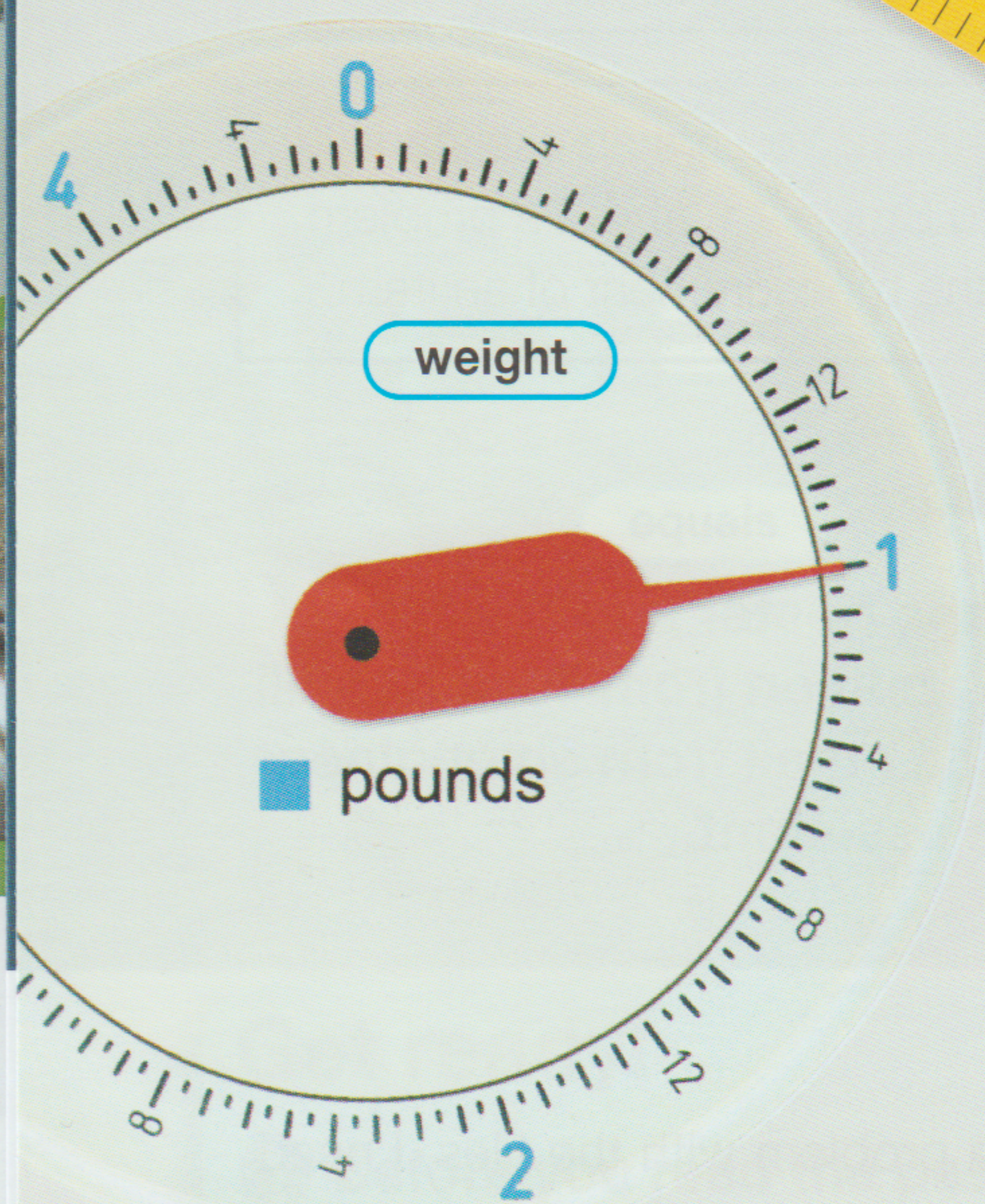
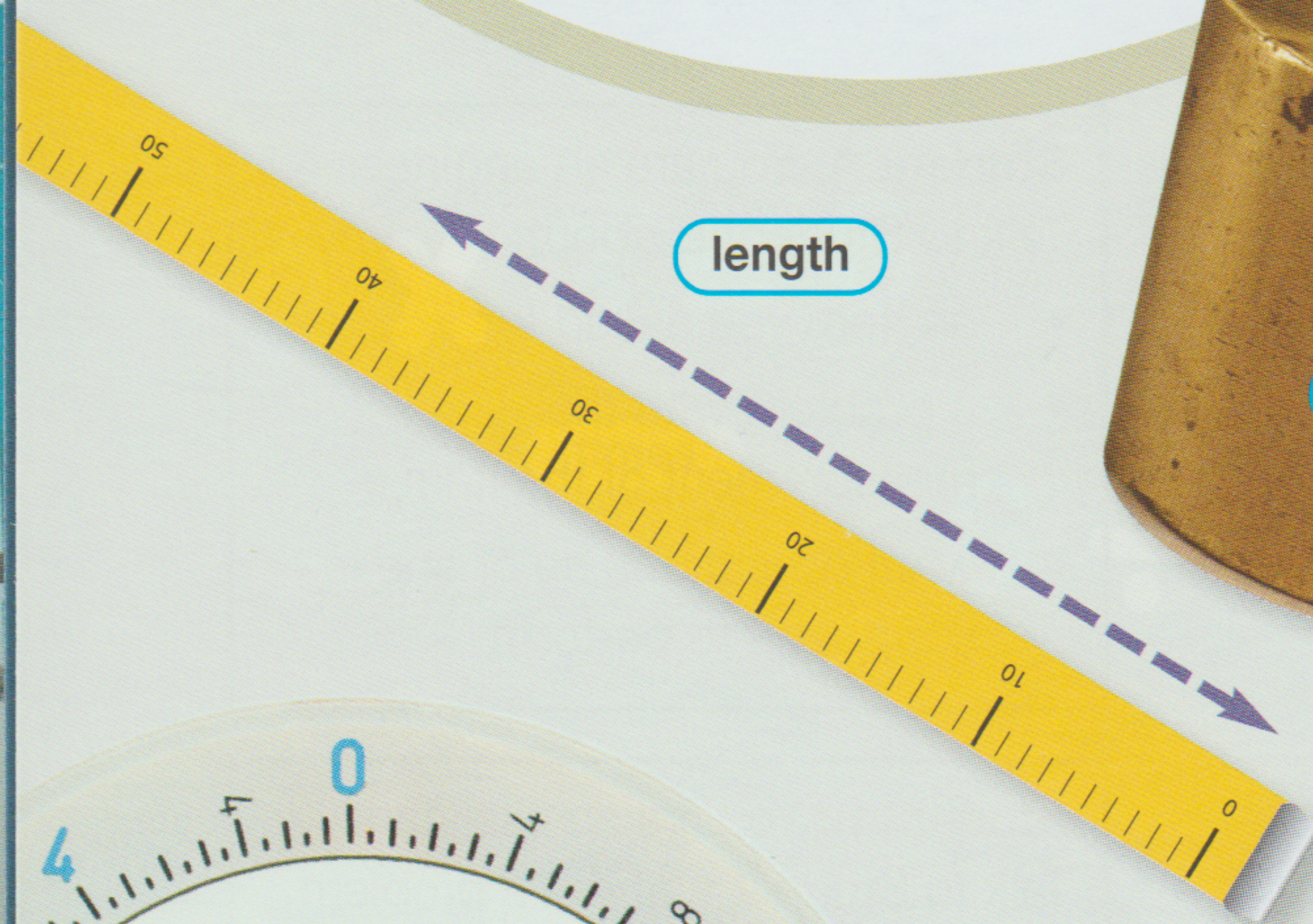


Get ready!

1 Before you read the passage, talk about these questions.

- 1 What are some different ways to measure weight?
- 2 How are quantities converted between units in the metric system?



Imperial vs. Metric Units

Conversion Chart

Don't know the difference between a gram and an ounce? This chart will help you figure it out!

Measurements of Length

1 foot = 0.30 meters

Measurements of Weight

1 pound = 0.45 kilograms

1 ounce = 28.35 grams

- To convert a measurement from imperial units to metric units, just multiply.
For example, 6 feet to meters:
 $6 \times 0.30 = 1.8$ meters.
- To convert a measurement from metric units to imperial units, just divide.
For example, 75 grams to ounces:
 $75 \div 28.35 = 2.65$ ounces.

Reading

2 Read the conversion chart. Then, mark the following statements as true (T) or false (F).

- 1 ___ The chart shows multiple imperial units of length.
- 2 ___ The chart includes a formula for converting pounds into kilograms.
- 3 ___ According to the chart, multiplication is used to convert imperial units into metric units.

Vocabulary

3 Read the sentence pairs. Choose which word or phrase best fits each blank.

1 feet / grams

- A The shaft is 3.5 _____ long.
- B The new component weighs 22 _____.

2 metric / imperial

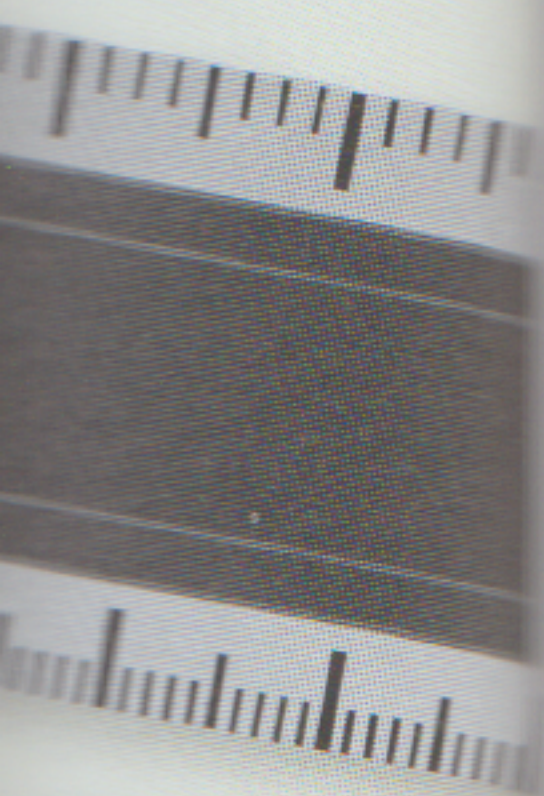
- A The _____ system is based on the number ten.
- B In the _____ system, weight is measured in ounces.

Units

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- 4 Place the words from the word bank under the correct headings.

Word BANK

length ounce weight meter kilogram pound

Metric Units	Imperial Units	Types of Measurements
_____	_____	_____
_____	_____	_____

- 5 Listen and read the conversion chart again. How can someone convert meters into feet?

Listening

- 6 Listen to a conversation between an engineer and an assistant. Choose the correct answers.

- What is the conversation mostly about?
 - comparing the weights of different parts
 - discussing the benefits of a measurement system
 - converting a length measurement between units
 - correcting an error in a measurement calculation
- What unit does the man need?
 - grams
 - meters
 - pounds
 - feet

- 7 Listen again and complete the conversation.

Engineer: Okay, Raymond. 1 _____ the new components.

Assistant: Sure. What do we need to measure?

Engineer: Start with the transmission shaft. How 2 _____?

Assistant: Let's see. It looks like 1.65.

Engineer: Really? Wait, is that a 3 _____ measurement?

Assistant: Oh, sorry. That's a metric measurement. It's 1.65 4 _____.

Engineer: That makes sense. What's that 5 _____?

Assistant: So 1.65 6 _____ 0.3 equals 5.5 feet.

Speaking

- 8 With a partner, act out the roles below based on Task 7. Then, switch roles.

USE LANGUAGE SUCH AS:

Let's measure ...
Is that a ... or a ...?
What's that in ...?

Student A: You are an engineer. Talk to Student B about:

- a measurement you need
- which system he or she used to calculate the measurement
- converting the measurement into a different system

Student B: You are an assistant. Talk to Student A about converting a measurement into a different system.

Writing

- 9 Use the conversion chart and the conversation from Task 8 to fill out the conversion notes.

