

Instructions for mixing cement



Concrete mixing follows a 1:2:3 mix: 1 part Portland cement, 2 parts sand, and 3 parts aggregate. However, should you desire exact measurements, use the following amounts.

Concrete Mixing Instructions (Imperial)

Ingredients:

- One 94 **pound** bag of Portland cement
- 15 **gallons** of sand
- 22 gallons of gravel

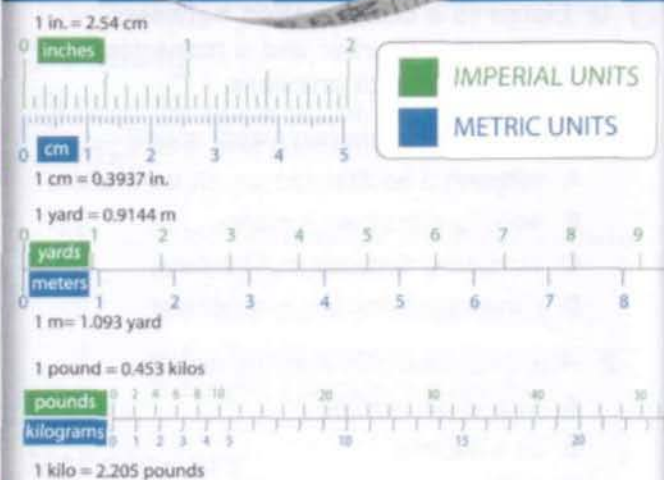
Mix the dry ingredients. Then add water in small amounts. One bag will produce about six square **yards** of cement. The average layer thickness is 4 **inches**. That's $\frac{1}{3}$ of a foot.

Concrete Mixing Instructions (Metric)

Ingredients:

- One 43 **kilogram** bag of Portland cement
- 57 **liters** of sand
- 83 liters of gravel

Mix the dry ingredients. Then add water in small amounts. One bag will produce about five square **meters** of cement. The average layer thickness is 10 **centimeters**.



Vocabulary

3 Match the words (1-6) with the definitions (A-F).

- | | |
|--------------|------------|
| 1 _ liter | 4 _ inch |
| 2 _ pound | 5 _ gallon |
| 3 _ kilogram | 6 _ meter |

- A a metric unit of mass
B a metric unit of volume
C an imperial unit of length
D an imperial unit of mass
E a metric unit of length
F an imperial unit of volume

4 Read the sentence and choose the correct word.

- The yard and the gallon are **metric / imperial** units of measurement.
- Lay out ten **yards / centimeters** of cement between the building and the street.
- The board is only five **kilograms / feet** long.
- The bolt is about eight **centimeters / gallons** long.
- The meter and kilogram are **metric / imperial** units of measurement.

Get ready!

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

- What are some imperial units of measurements?
- What are some metric units of measurement?

Reading

2 Read the instructions for mixing cement. Then, mark the statements as true (T) or false (F).

- _ Forty pounds of cement is equal to 60 kilos.
- _ Water should be added after the sand and cement are mixed.
- _ One bag of cement will produce a layer with thickness of 5 inches or 2 centimeters.

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Sash Windows

These are standard windows for a home. Their typical **dimensions** are a **width** of 60cm and a **height** of 90 cm. The bottom sash opens. The top sash is fixed.

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Storm Windows

These are a greater **weight** and provide extra **strength** to resist wind and other weather. They have a 3 cm **thickness**. We start at a minimum window **length** of 80 cm.

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Casement Windows

These windows also have a sash. It swings inward or outward. They should be installed on a **sill** with a minimum length of 8 cm.

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French Doors

We cut custom glass to fit French doors. They do require a minimum **jamb** width of 8 cm. The **depth** at the bottom of the door should be 1 cm.



Get ready!

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

- 1 What are some important dimensions in construction work?
- 2 What forms the base of a window?

Reading

2 Read the website from a window manufacturer. Then, mark the statements as true (T) or false (F).

- 1 — The top sash opens in a standard sash window.
- 2 — Casement window sills require an eight centimeter jamb.
- 3 — French doors should have a jamb at least 8 cm wide.

Vocabulary

3 Match the words (1-5) with the definitions (A-E).

- | | | |
|------------|------------|-----------|
| 1 — weight | 3 — length | 5 — width |
| 2 — depth | 4 — height | |

- A the measurement of how long something is
- B the measurement of how heavy something is
- C the measurement of how wide something is
- D the measurement of how deep something is
- E the measurement of how tall something is

4 Fill in the blanks with the correct words from the word bank.

word BANK

thickness **sill** **strength**
dimensions **jamb**

- 1 Steel has much more _____ than wood.
- 2 Don't place that bowl on the window _____ or it will fall off.
- 3 What is the height and other _____ of that table?
- 4 The window glass should have a _____ of at least 3cm to keep out cold winds.
- 5 This door will not fit inside its _____.