



G3.74 | COMPARING WEIGHTS IN STANDARD UNITS

Geometry & Measurement Concepts - NCERT Chapter 8: Who is Heavier?

Students will be able to compare weights of different objects in Kilogram

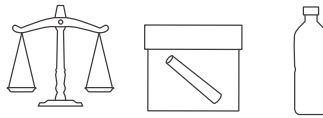
40- 50 min

PRE REQUISITES:

G3.73 Know how to estimate & verify weights of objects around



TLM



A weighing balance
Chalk box, a diary & other everyday items



MISCONCEPTIONS

Students consider heavy or light as fixed aspects not realising an object can be heavier than one & lighter than another

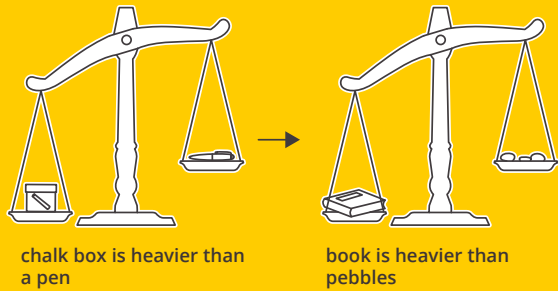


KEY VOCABULARY

None



PLAY



chalk box is heavier than a pen

book is heavier than pebbles

Balance the balance: Use objects around to balance the two pans of a weighing balance



Divide the students into 2 teams & tell them that they will play a game



Each team will put one object on the balance, the other team must find some object that can balance the pans



Ask teams to collect objects from the classroom. Call one student to place one object on one of the pans of the balance



Ask the second team to look through their collection



Ask if they can find something that they think can balance the pans



Repeat for a few rounds



TEACHER'S NOTE

Encourage students to put more than 1 object to balance the pans, if required



PROCESS



1 Kg sugar > 1/2 Kg salt

Less than 1 Kg

More than 5 Kg

Comparing weights of everyday objects



Draw a packet of sugar on the blackboard & tell the students that it is a 1Kg packet of sugar



Draw a small packet of salt & tell that it is a 1/2 Kg packet of salt. Tell the salt packet is lighter than sugar packet



Draw a shoe & tell the students that shoes weigh less than a Kg



QUESTION: Can you name something that is heavier than a shoe? Does it weigh more than a Kg?



Allow students to answer & then summarize that objects like a table, a chair, or a heavy school bag can weigh 3 or 4 Kgs. They weigh more than a shoe.

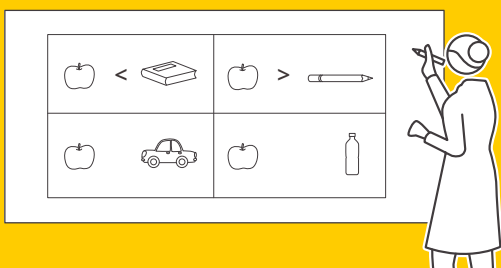


QUESTION

How much do you think a cat weighs? Can you name an animal that weighs less than a cat?



PRACTICE



Draw the question on the black board & ask the students to solve



Help the students solve question 3 from the worksheet. Ask the students to circle the heavier object in the table shown



Explain that an object can be lighter than one object but can be heavier than some other object



QUESTION

How much do you think an apple weighs? How much do you think a car weighs? Which one is heavier?



Help the students solve question 4 from the worksheet. Ask the students to circle the objects that weigh more than a Kg & underline objects that weigh more than 5 Kgs

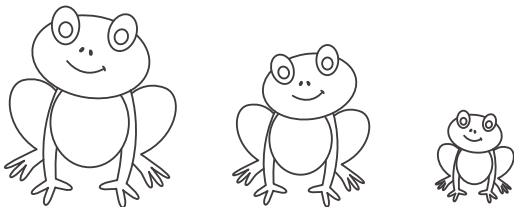




- ① SOLVED EXAMPLE : Guess the weight of shown objects & join by drawing the lines:

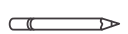
Objects	Weight
	18 kg
	1 kg
	5 Kg

- ② The big frog weighs 2 Kg, the small frog weighs less than 1 Kg. Can you tell how much the medium-sized frog weighs?

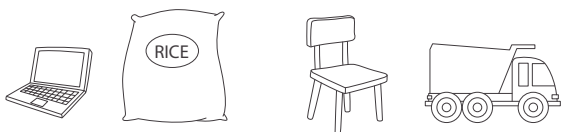


More than 2 Kg but less than 1 Kg
or
More than 1 Kg but less than 2 Kg

- ③ Circle the heavier object in the table shown

a. 		b. 	
c. 		d. 	

- ④ Circle the objects that weigh more than a Kg & underline objects that weigh more than 5 Kgs.



- ⑤ Which of these objects weighs less than a toothbrush



100g



- ⑥ Visit a local grocery store & find out:

- What is the weight of the biggest rice pack they sell?
- What is the weight of the smallest packet of red chili powder they sell?