

TOPIC 8	MASS	INTERVENSI
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Learning Area: Computation of Mass
 Learning Objective: Use and apply fractional computation to problems involving mass.
 Learning Outcome: Solve problem in real context involving computation of mass.

Teaching Aids

Duration: 1 hour

Weighing scale, objects

Set Induction – Weighing objects with round figure measurement.

1. Teacher distributes object to each group.
2. Teacher asks pupils to weigh the object.
3. Teacher asks pupils to read out their measurement.

Step 1: Pupils weigh objects given to them

<p><u>Pupils' Activity:</u></p> <p>Pupils weigh objects given to them</p>	<p><u>Notes To Teachers:</u></p> <p><i>Make sure the weights of the objects are of whole value number.</i></p>
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<p><u>Teacher's Instruction:</u></p> <ol style="list-style-type: none"> 1. <i>What object are you weighing?</i> 2. <i>What is the weight?</i> 	<p><u>Expected answers from pupils:</u></p> <ol style="list-style-type: none"> 1. <i>Apples, box, book, a box of erasers</i> 2. <i>As measurement shown on the scale</i>
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Step 2: Teacher explains the way of reading the weighing scale.

<p><u>Pupils' Activity:</u></p> <p>Pupils identify the unit on the weighing scale.</p> <p>Pupils answer questions based on weighing scale</p>	<p><u>Notes To Teachers:</u></p> <p><i>Make sure the weights of the objects are of whole value number.</i></p>
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<p><u>Teacher's Instruction:</u></p> <ol style="list-style-type: none"> 1. <i>Look at the weighing scale.</i> 2. <i>What is the unit shown?</i> 3. <i>How many graduations are there between 0 to 200?</i> 4. <i>Can you tell me the value of each graduation?</i> 5. <i>Now, look at the pointer on the weighing scale.</i> 6. <i>Can anybody tell me the mass of the objects shown.</i> 	<p><u>Expected answers from pupils:</u></p> <ol style="list-style-type: none"> 2. <i>The unit shown is gram</i> 3. <i>2</i> 4. <i>100 grams</i> 6. <i>500 grams</i>
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Step 3: Teacher explains how to solve problems.

<p><u>Pupils' Activity</u></p> <p>Pupils read the question</p> <p>Pupils highlight key words.</p> <p>Pupils listen to teacher's explanation</p>	<p><u>Notes To Teachers:</u></p> <p><i>The sample question is the first question on the worksheet.</i></p>
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<p><u>Teacher's Instruction:</u></p> <ol style="list-style-type: none"> 1. <i>Read the question.</i> 2. <i>What are the key words?</i> 3. <i>What is the first thing you must do?</i> 4. <i>What is the weight of one box?</i> 5. <i>Teacher emphasises the required unit in the question.</i> 6. <i>Teacher shows how to calculate.</i> 	<p><u>Expected answers from pupils:</u></p> <ol style="list-style-type: none"> 1. <i>Pupils read.</i> 2. <i>Weight of $3\frac{1}{4}$ boxes</i> 3. <i>Read the weighing scale.</i> 4. <i>1 200 g / 1.2 kg</i>
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Step 4: Teacher distributes worksheet and asks pupils to solve.

WORKSHEET 1

- 1 Diagram 1 shows the weight of a box.

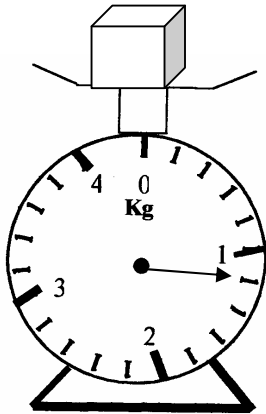
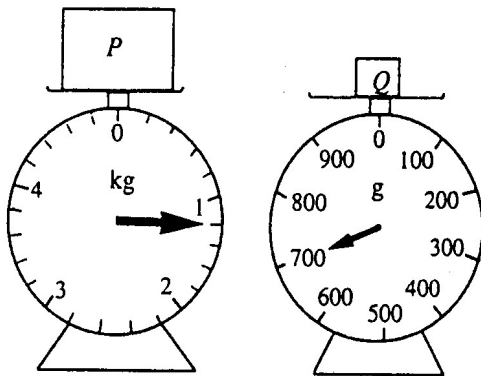


Diagram 1

Calculate the weight of $3\frac{1}{4}$ boxes of the same mass.

- 2.



Calculate the total mass, in grams, of 1 box P and $2\frac{1}{2}$ box Q with the same mass.

3. Diagram 2 shows the weight of a packet of sugar.

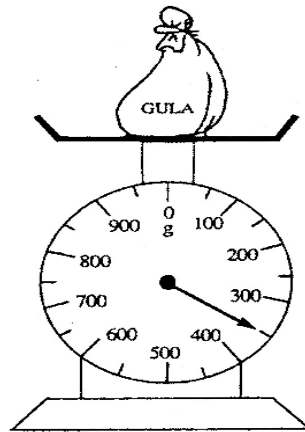


Diagram 2

Calculate the total weight of $2\frac{1}{2}$ packets of sugar of the same mass.

4. Diagram 3 shows the weight of a papaya.

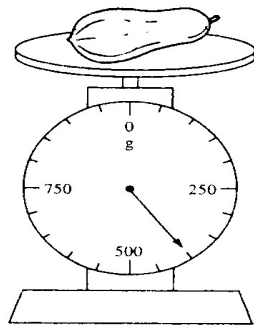


Diagram 3

If a watermelon which mass is $5\frac{1}{4}$ more than the papaya.
What is the weight, in kg, of both the fruits?

(3 marks)

WORKSHEET 2

(Extract from Masmatics page 60 – 64)

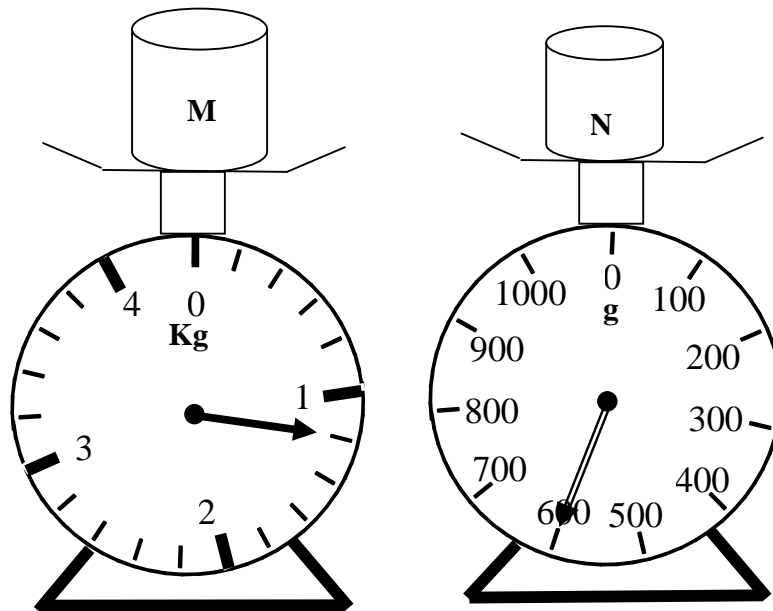
1	<p>The mass of 1 box of books is 30 kg. What is the mass, in kg, of $2\frac{1}{4}$ box?</p>										
2	<p>The mass of a basket is 725 g. Find the mass, in kg, for $1\frac{1}{5}$ similar baskets.</p>										
3	<p>A sack contains 25 kg of sugar. Siti bought $3\frac{1}{2}$ of similar sacks. What is the mass, in kg, of sugar that she bought?</p>										
4	<p>Table shows the mass of four packets.</p> <table border="1"><thead><tr><th>Packets</th><th>R</th><th>S</th><th>T</th><th>U</th></tr></thead><tbody><tr><td>Mass</td><td>3 kg</td><td>2.5 kg</td><td>0.1 kg</td><td>18 kg</td></tr></tbody></table> <p>Find the total mass, in kg, for the four packets.</p>	Packets	R	S	T	U	Mass	3 kg	2.5 kg	0.1 kg	18 kg
Packets	R	S	T	U							
Mass	3 kg	2.5 kg	0.1 kg	18 kg							
5	<p>The mass of a basket is 14 kg. What is the mass, in kg, for $6\frac{2}{5}$ similar baskets?</p>										

- 6 Table shows mass of three types of fish.

Fish	Bawal	Cencaru	Pari
Mass	14.5 kg	20.2 kg	16.8 kg

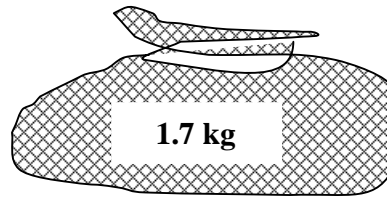
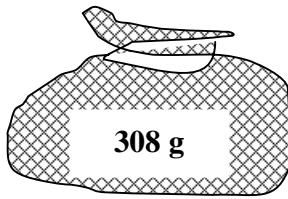
Find the total mass, in kg, of all the fish.

- 7 Diagram shows two weighing scales.



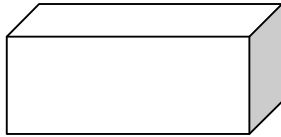
What is the total mass, in kg, of one container M and $3\frac{1}{2}$ of containers N?

- 8 Diagram shows the mass of two packets of sugar.

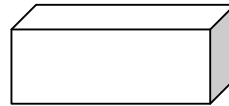


What is the total mass, in g, for both packets?

- 9 Diagram shows the mass of two boxes.



10.6 kg



4.225 kg

What is the difference in mass, in g, between the two boxes?

- 10 The total mass of three parcels of equal mass each is 27 kg.

What is the mass, in kg, for $3\frac{2}{3}$ similar parcels?

- 11 $1\frac{1}{4}$ of 15 kg =
(Give the answer in g.)

12	A pack contains 32 kg of flour. Puan Aminah bought $2\frac{2}{5}$ of similar packs. What is the mass, in kg, of flour did she buy?
13	24 kg of rice is filled into a plastic bag. Find the mass, in kg, of rice in $8\frac{1}{4}$ of similar bags.
14	Amin's weight is 20 kg. His brother weighs $3\frac{1}{2}$ more than Amin. What is the total mass, in kg, of Amin and his brother?
15	Din's weight is 36.5 kg while Zaki's weight is $2\frac{1}{2}$ of Din's weight. What is the total weight, in kg, of Din and Zaki?
16	Pak Mamat bought 6 kg of sugar. He used 0.8 kg of the sugar to make syrup and $\frac{1}{4}$ of the sugar to make biscuits. How much sugar, in kg, has not been used?

17	<p>The mass of two baskets is 40 kg.</p> <p>What is the mass for $7\frac{1}{4}$ similar baskets?</p>
18	<p>The mass of a papaya is 2 kg while a jackfruit is $3\frac{1}{5}$ more than the papaya.</p> <p>What is the difference in mass, in kg, between both fruits?</p>
19	<p>The mass of a box is 12.6 kg.</p> <p>What is the total mass, in g, for $2\frac{1}{5}$ of similar boxes?</p>
20	<p>Diagram shows the mass of bricks.</p> <div data-bbox="501 1379 903 1615" data-label="Diagram"><p>The diagram shows three rectangular bricks stacked vertically. The top brick is the smallest and is labeled '7 g'. The middle brick is larger than the top one and is labeled '55 g'. The bottom brick is the largest and is labeled '4 kg'.</p></div> <p>What is the total mass of the bricks?</p>