

# Year 3 Maths Lesson

19.1.21

Home Learning Powerpoint – If you have any problems, just send us a Dojo message.

# On this maths powerpoint:

- Answers from yesterday's work
- 1 warm up activity
- 1 maths lesson



Remember – you can get Dojos for posting pictures of your work on Class Dojo!



# Warm Up Activity 1.



Answers on the  
next slide. No  
peeking!

Convert these kg in g and vice versa.  
Remember  $1000\text{g} = 1\text{ kg}$

## Easier

- |            |              |
|------------|--------------|
| 1. 1000g   | 1. 2kg       |
| 2. 2000g   | 2. 3kg       |
| 3. 3000g   | 3. 5kg       |
| 4. 4000g   | 4. 7kg       |
| 5. 5000g   | 5. 8kg       |
| 6. 6000g   | 6. 9kg       |
| 7. 7000g   | 7. 1kg       |
| 8. 8000g   | 8. 4kg       |
| 9. 9000g   | 9. 6kg       |
| 10. 10000g | 10. 1kg 500g |

## Harder

- |           |              |
|-----------|--------------|
| 1. 2000g  | 1. 3kg       |
| 2. 3000g  | 2. 5kg       |
| 3. 5000g  | 3. 7kg       |
| 4. 6500g  | 4. 9kg       |
| 5. 7500g  | 5. 1kg 500g  |
| 6. 8500g  | 6. 2kg 600g  |
| 7. 9200g  | 7. 4kg 900g  |
| 8. 1300g  | 8. 5kg 850g  |
| 9. 2400g  | 9. 3kg 700g  |
| 10. 5600g | 10. 2kg 650g |



# Warm Up Activity 1.



How did you  
get on?

Convert these kg in g and vice versa.  
Remember  $1000\text{g} = 1\text{ kg}$

## Easier

1. 1kg
2. 2kg
3. 3kg
4. 4kg
5. 5kg
6. 6kg
7. 7kg
8. 8kg
9. 9kg
10. 10kg

1. 2000g
2. 3000g
3. 5000g
4. 7000g
5. 8000g
6. 9000g
7. 1000g
8. 4000g
9. 6000g
10. 1500g

## Harder

- |              |           |
|--------------|-----------|
| 1. 2kg       | 1. 3000g  |
| 2. 3kg       | 2. 5000g  |
| 3. 5kg       | 3. 7000g  |
| 4. 6kg 500g  | 4. 9000g  |
| 5. 7kg 500g  | 5. 1500g  |
| 6. 8kg 500g  | 6. 2600g  |
| 7. 9kg 200g  | 7. 4900g  |
| 8. 1kg 300g  | 8. 5850g  |
| 9. 2kg 400g  | 9. 3700g  |
| 10. 5kg 600g | 10. 2650g |

19.01.21

Write today's  
date and  
objective in your  
home learning  
book.

Can I compare masses using different  
units?

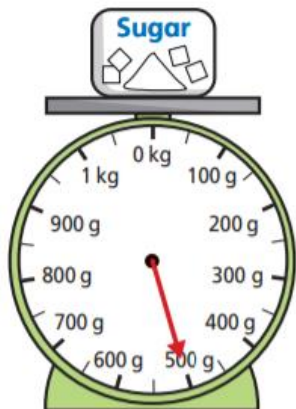
Remember to be  
proud of your work  
and use your best  
presentation

Yesterday you were reading scales with different intervals. The answers to yesterday's work are on the next few slides. Take a look at how you got on. If you got some wrong, see if you can spot where you went wrong.

## Measure mass (1)

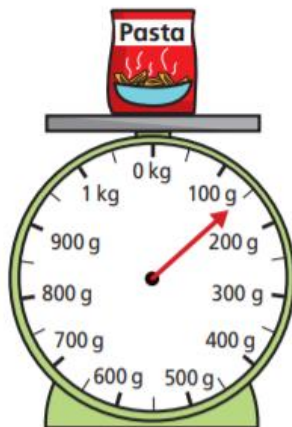
1 What is the mass of each object?

a)



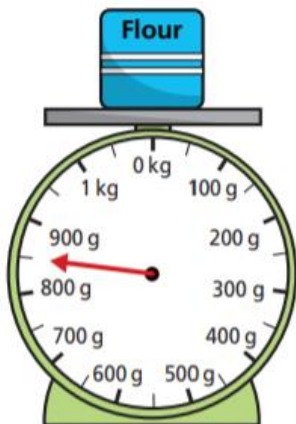
500 g

c)



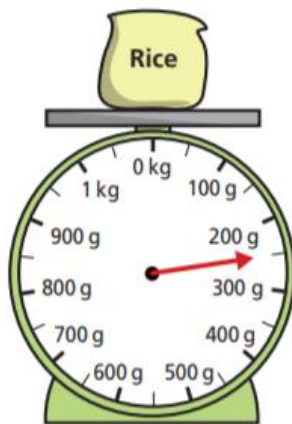
150 g

b)



850 g

d)

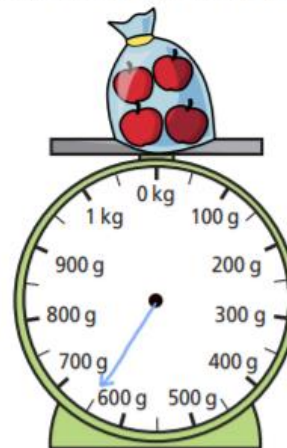


250 g

2 Tom weighs some apples.

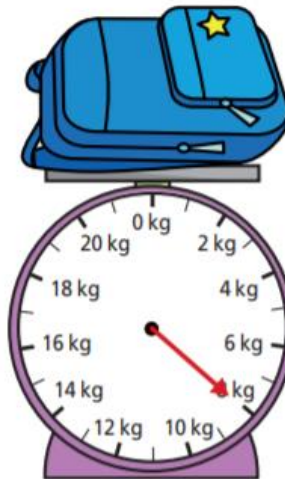
The apples weigh 650 g in total.

Draw an arrow on the scales to show the weight of the apples.



3 What is the mass of each bag?

a)



8 kg

b)



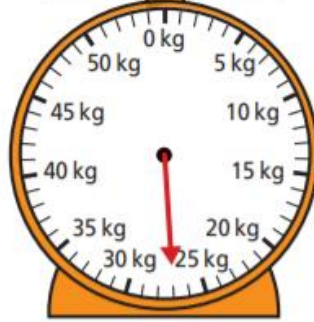
15 kg

c)



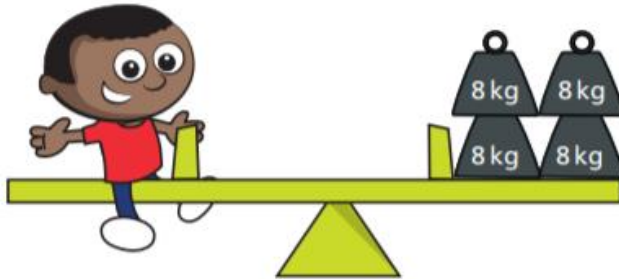
35 kg

d)



27 kg

4 How many kilograms does Mo weigh?



32 kg

5

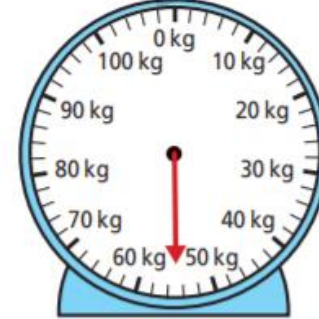
What is the mass of each barrel?

a)



62 kg

b)



55 kg

6

The Khan family is going on holiday.

Their luggage is weighed at the airport.



Maximum weight  
of bag: 24 kg

Can the family take this suitcase with them?

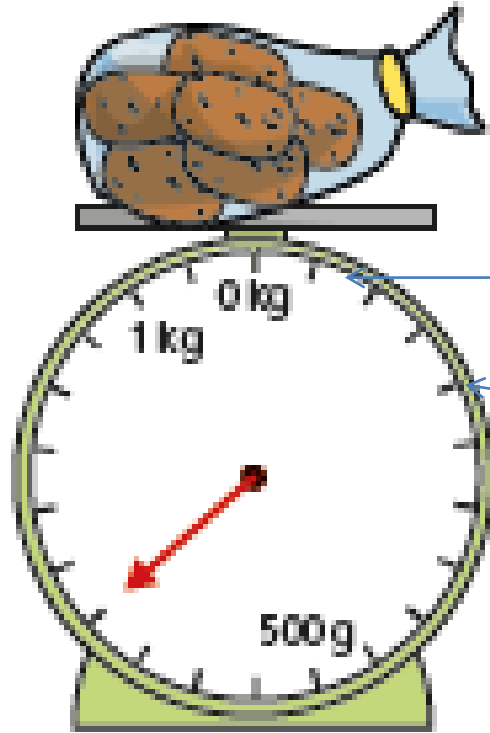
No

Why do you think this?



Let's quickly recap.

We measure mass in grams and kilograms.



It is important to read the scale carefully.

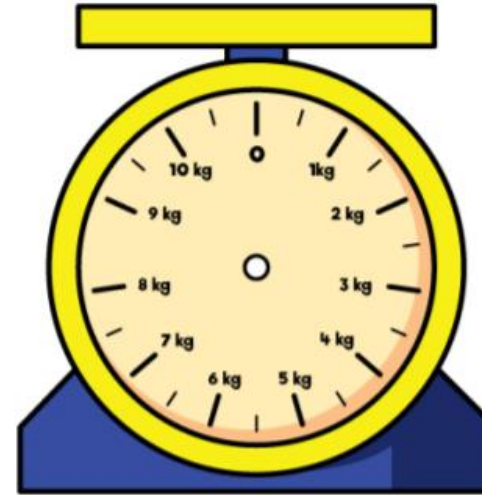
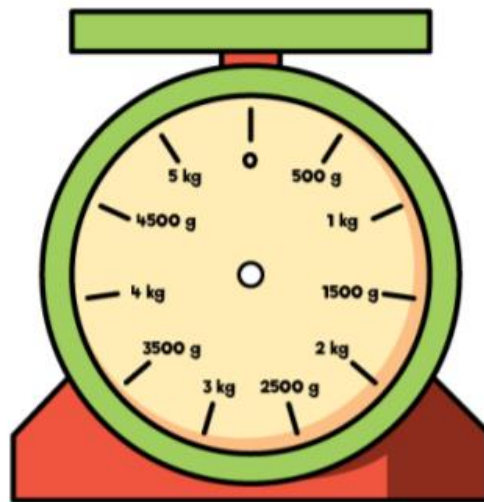
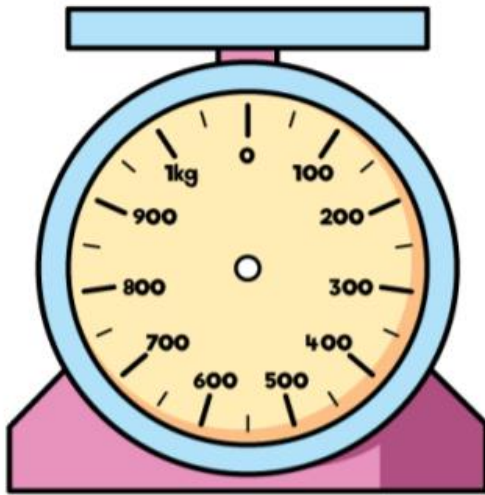
What does each individual interval stand for?

It stands for 50 g.

The potatoes weigh 700 grams

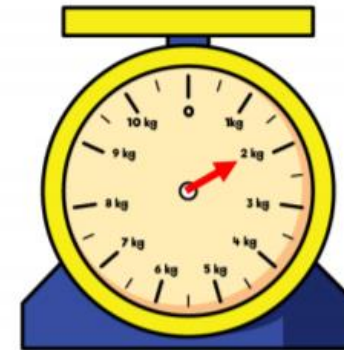
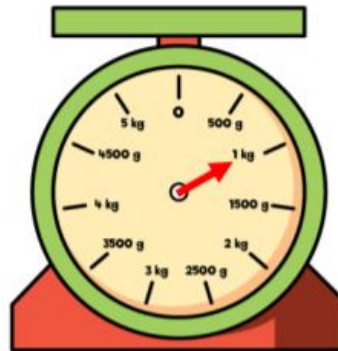
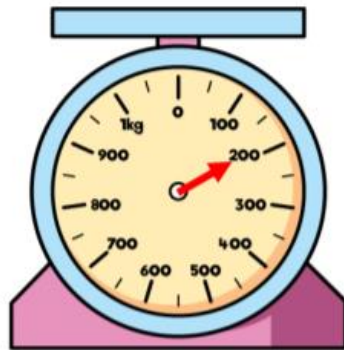
Have a go at the ones on the next few slides before having a go on your own.

It is important to check the scale and intervals when comparing masses.



# True

The scale may be in grams or kilograms and the intervals could go up in different amounts.



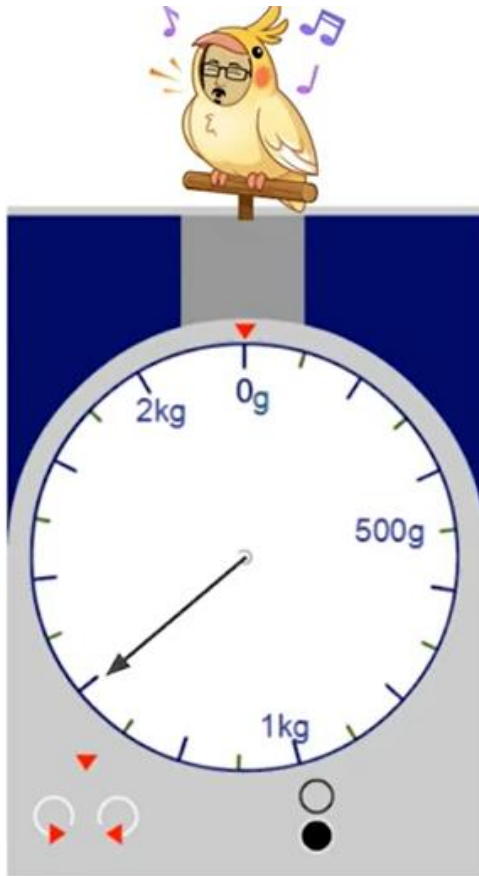
In these examples the arrow is pointing to the same place but they each represent different masses.

Watch this lesson from Oak Academy on comparing mass using mixed units.

<https://classroom.thenational.academy/lessons/weighing-and-comparing-masses-in-mixed-units-c8tpcd?step=2&activity=video>

How much does each animal weigh?

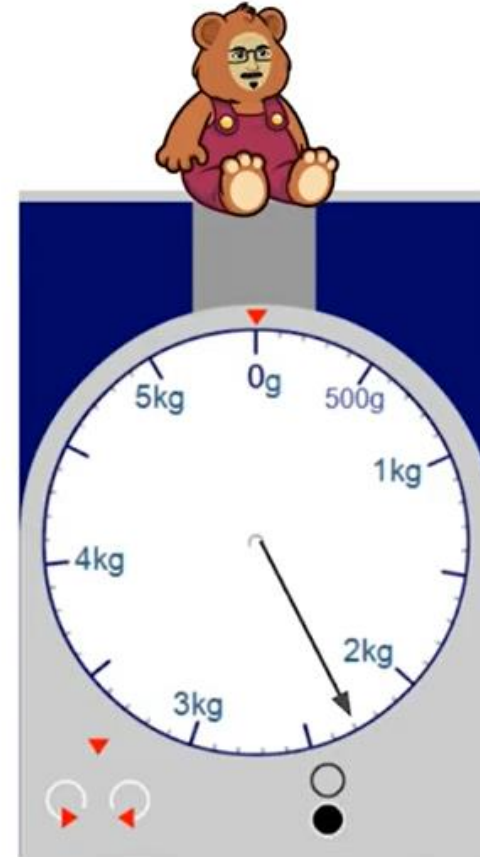
Now have a go at the worksheet on the next few slides. Print it off if you have a printer or answer each question in your home learning book.



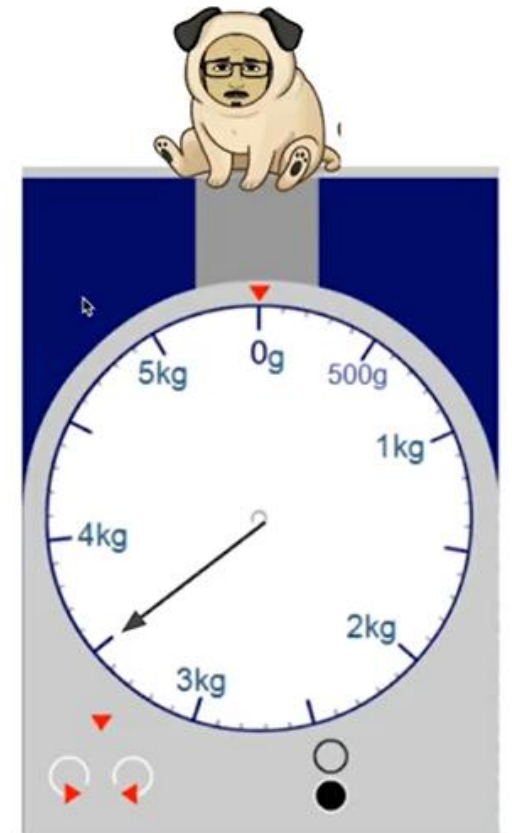
1kg 400g



4kg 200g



2kg 300g



3kg 500g



- 1 Write **heavier** or **lighter** to complete the sentences.

a)



The apple is \_\_\_\_\_ than the orange.

The orange is \_\_\_\_\_ than the apple.

b)



The ball is \_\_\_\_\_ than the bat.

The bat is \_\_\_\_\_ than the ball.

- 2 a) Which is the heavier barrel?



b) Which is the lighter crate?



c) What can you say about the mass of the two crates?



- 3 The mass of a tin and a book is shown.



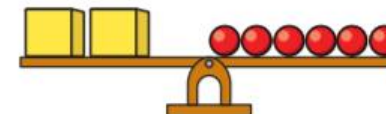
Scott puts the tin and the book on the scales.

One side of the scales goes down.

Draw the book and the tin on the scales to show this.



- 4 The scales show that 2 cubes balance 6 spheres.



Tommy is removing shapes to see what happens to the scales.

Which is the correct image in each part?

a)



b)



c)



Talk about your answers with a partner.

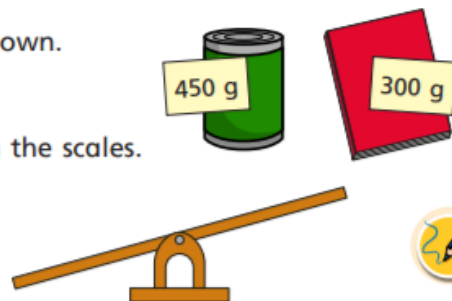


- 3 The mass of a tin and a book is shown.

Scott puts the tin and the book on the scales.

One side of the scales goes down.

Draw the book and the tin on the scales to show this.



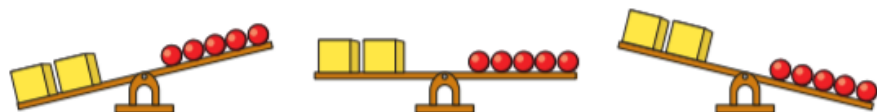
- 4 The scales show that 2 cubes balance 6 spheres.



Tommy is removing shapes to see what happens to the scales.

Which is the correct image in each part?

a)



b)



c)



Talk about your answers with a partner.



- 5 Which is the greater mass in each pair?

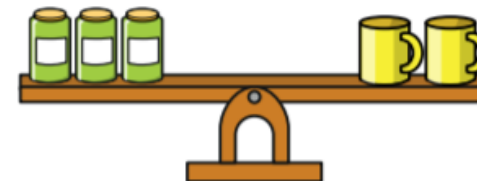


- 6 Three weights are shown on the scales.



Write the weights in order, starting with the lightest.

7



Is a jar or a mug heavier?

How do you know?

Talk about it with a partner.



# Challenges

The green parcel weighs 5 kg.  
Can you work out what the blue and brown parcel weigh?



9 kg and 400 g



7 kg and 250 g

How much would the green and brown parcel weigh altogether?

Here are three masses.



20 kg and 600 g

18 kg and 500 g

20 kg

Match each mass to the correct child.



Dora

My mass weighs more than  $\frac{1}{2}$  of 40 kg.

My mass is more than Eva's mass.



Mo



Eva

My mass weighs more than 18 kg but less than 20 kg.



1) Sort these objects into order of mass from lightest to heaviest.



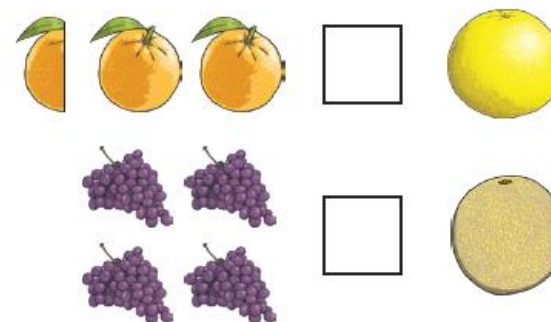
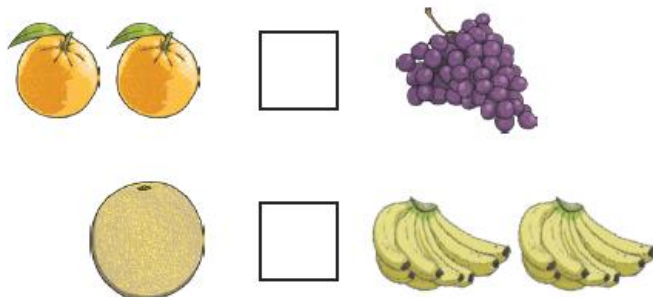

lightest



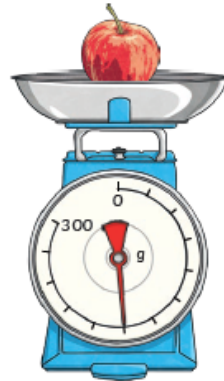


heaviest

2) Use <, > or = to compare these objects.



Tomek, Mark and Geri are weighing their shopping items.



- 1) Sort the items in order of mass from heaviest to lightest.

\_\_\_\_\_

- 2) Look at the statements below. Which do you agree with? Explain why.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Geri says, "The bag of sprouts is heavier than the bag of potatoes because 960 is greater than 4."

Mark says, "The pumpkin weighs less than the apple because the pointer on the pumpkin scale is less than halfway but on the apple scale it is more than halfway."

Tomek says, "The apple weighs less than the bag of potatoes because 175g is less than 4kg."

- 3) Explain what is wrong with the incorrect statements.

\_\_\_\_\_  
\_\_\_\_\_

- 1) Maria, Jemma, Ben and Graham have all been shopping. Use the clues to work out who each bag belongs to.



This bag belongs to

\_\_\_\_\_.



This bag belongs to

\_\_\_\_\_.



This bag belongs to

\_\_\_\_\_.



This bag belongs to

\_\_\_\_\_.

Maria's shopping bag has a mass of less than  $\frac{1}{4}$  of 10kg and more than 2kg.

Jemma's shopping bag has a mass of more than 4kg but less than 6200g.

Ben's shopping bag weighs less than Jemma's but more than Maria's.

- 2) Write a clue to compare Graham's shopping bag to someone else's.

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- 3) The same shopping bags are placed onto a balance with some sets of equal weights. What can you say is true about the weights?

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