

Year 1/2 – Spring Block 4 – Weight and Volume – Step 1

About This Resource:

This PowerPoint has been designed to support your teaching of this small step from the Mixed Age planning. It includes a starter activity suitable for each year group and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack (separate for each year group). Each slide has the year group identified in the bottom right-hand corner. We recommend that you look through this PowerPoint in advance and decide whether to work through all examples provided or a selection of them depending on the needs of your class.

National Curriculum Objectives:

Mathematics Year 1: (1M2) [Measure and begin to record: mass/weight](#)

Mathematics Year 1: (1M1) [Compare, describe and solve practical problems for: mass/weight \[for example, heavy/light, heavier than, lighter than\]](#)

Mathematics Year 2: (2M1) [Compare and order lengths, mass, volume/capacity and record the results using >, < and =](#)

More [Year 1 and Year 2 Weight and Volume](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

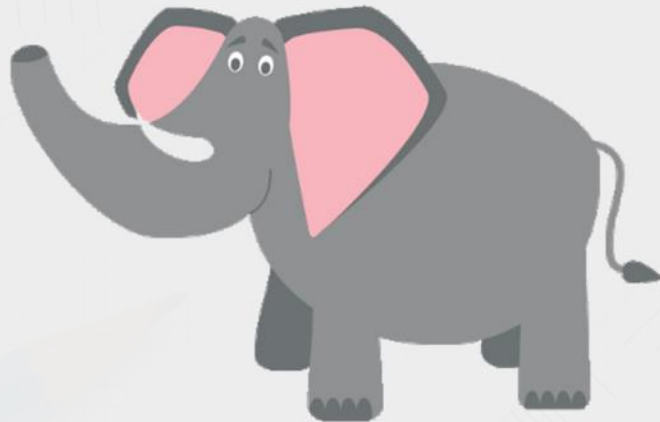
Step 1

**Year 1: Introduce Weight
and Mass**

Year 2: Compare Mass

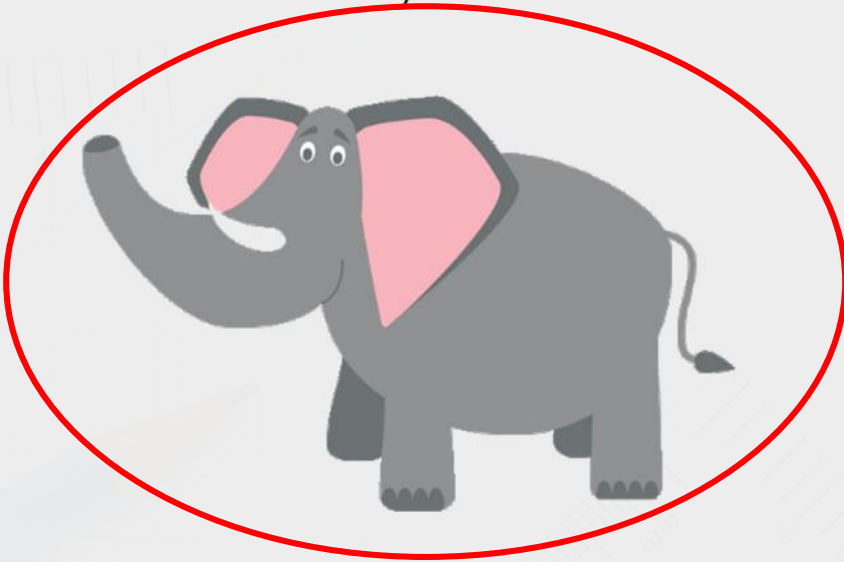
Introduction

Which items do you think are too heavy for you to pick up?



Introduction

Which items do you think are too heavy for you to pick up?



Introduction

Complete the sentences.



The pumpkin weighs the as the melon.



The lemon weighs than the apple.



The sweetcorn weighs than the tomato.

Word bank: more less same

Introduction

Complete the sentences.



The pumpkin weighs the **same** as the melon.



The lemon weighs **less** than the apple.

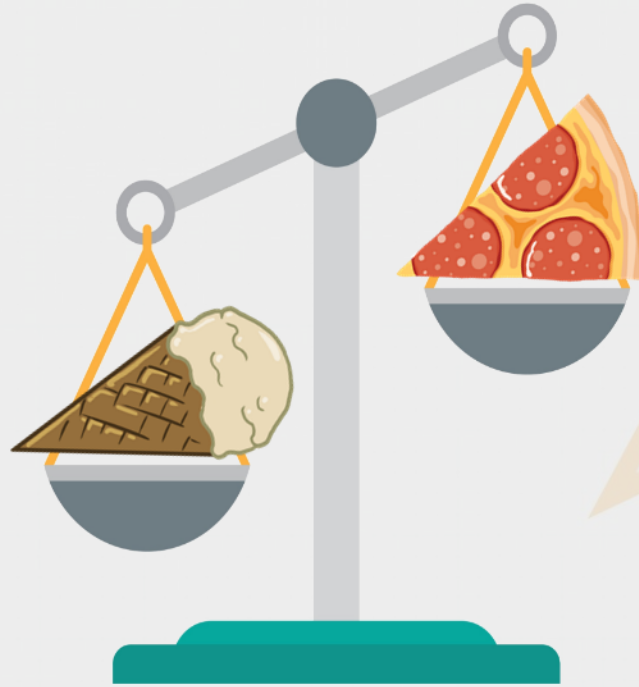


The sweetcorn weighs **more** than the tomato.

Word bank: more less same

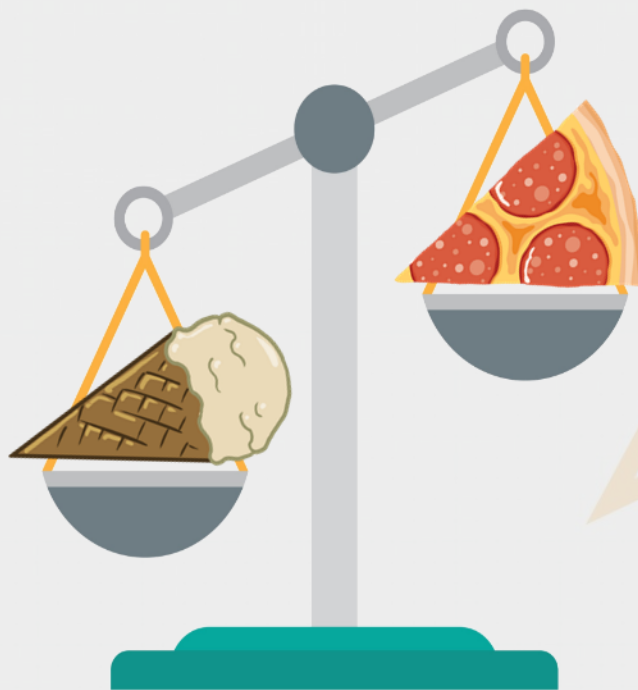
Varied Fluency 1

True or false? The pizza is heavier than the ice cream.



Varied Fluency 1

True or false? The pizza is heavier than the ice cream.



False.
The pizza is lighter than the ice cream.

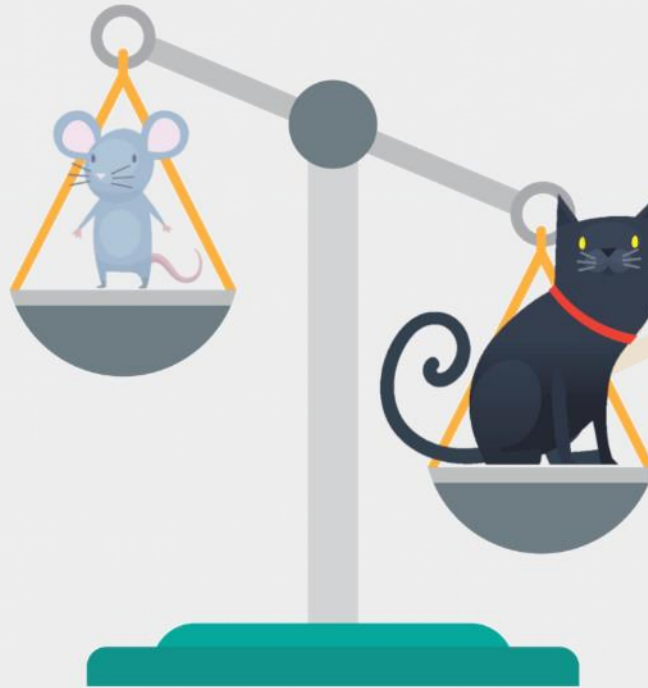
Varied Fluency 2

The cat is heavier than the mouse.
Draw them in the correct place on the scales.



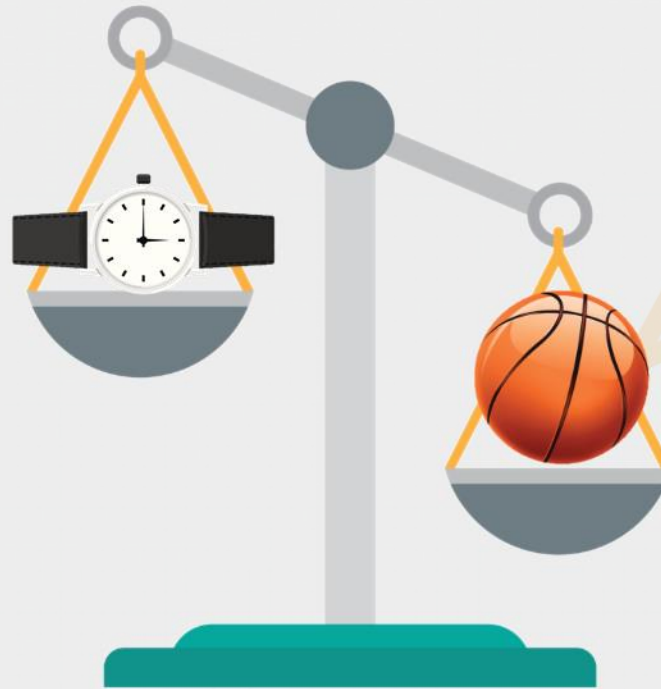
Varied Fluency 2

The cat is heavier than the mouse.
Draw them in the correct place on the scales.



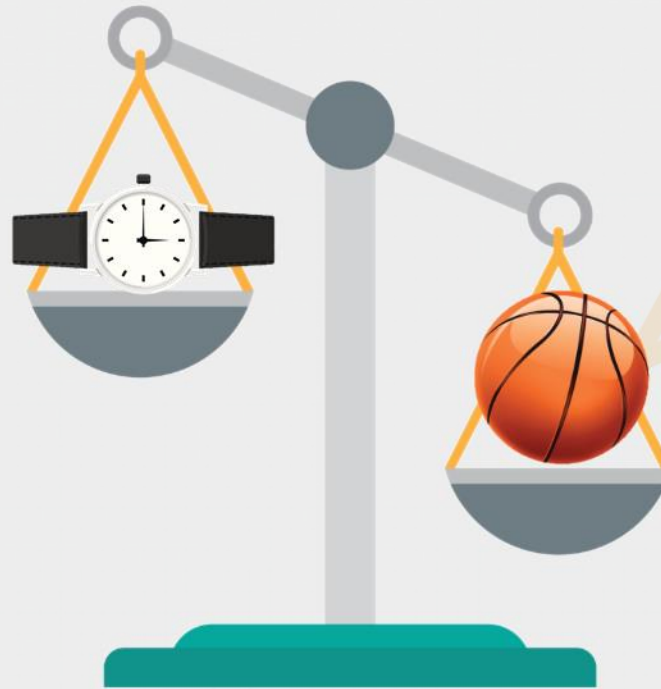
Varied Fluency 3

Is the watch heavier or lighter than the basketball?



Varied Fluency 3

Is the watch heavier or lighter than the basketball?



Lighter

Varied Fluency 4

The balance scale is level.
Circle the word that describes the weight of the flowers.

Heavier

Equal

Lighter



Varied Fluency 4

The balance scale is level.
Circle the word that describes the weight of the flowers.

Heavier

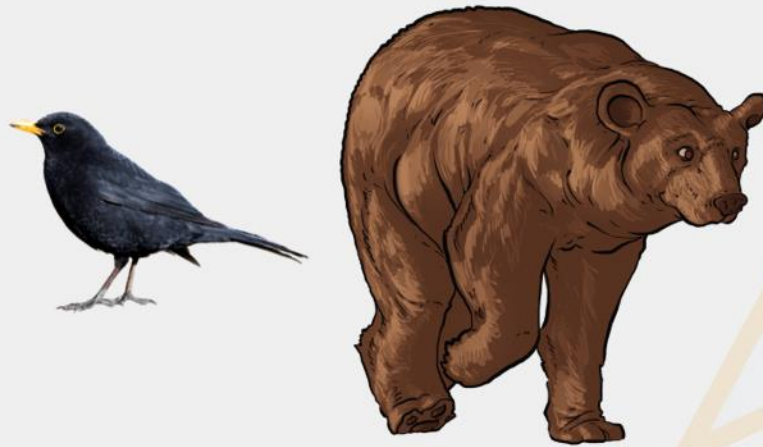
Equal

Lighter



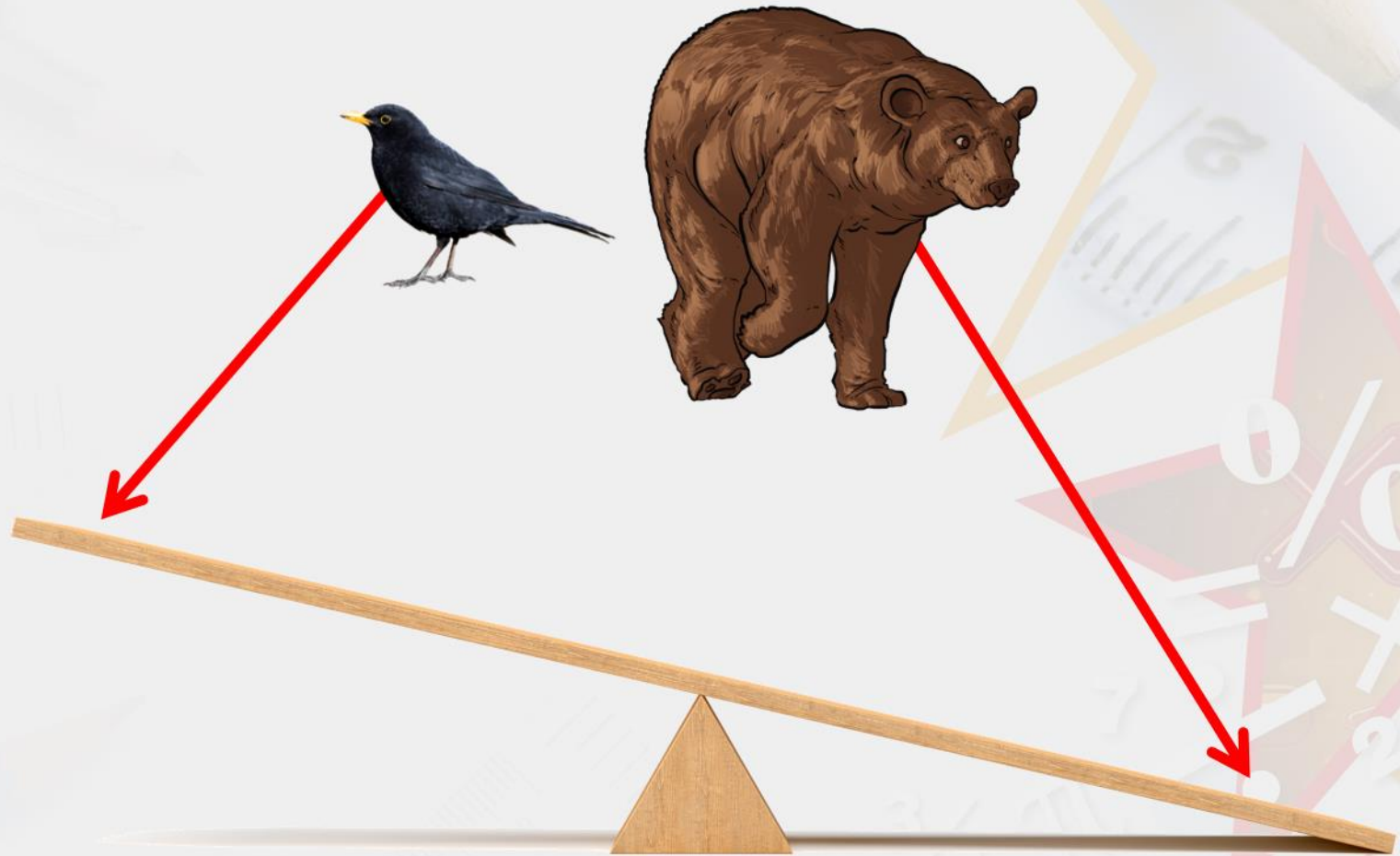
Varied Fluency 1

Draw lines to show which side of the balance the objects belong.



Varied Fluency 1

Draw lines to show which side of the balance the objects belong.



Y2

Varied Fluency 2

Use the words 'more' or 'less' to complete the sentence.

**A feather weighs

than a pebble.**

Varied Fluency 2

Use the words 'more' or 'less' to complete the sentence.

A feather weighs
less
than a pebble.

Varied Fluency 3

Order these objects from heaviest to lightest.



Varied Fluency 3

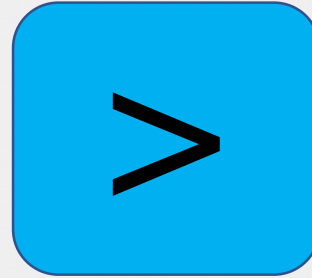
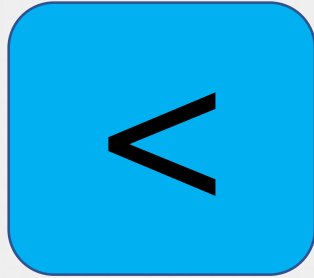
Order these objects from heaviest to lightest.



heaviest  lightest

Varied Fluency 4

Which symbol could you swap for the underlined words?

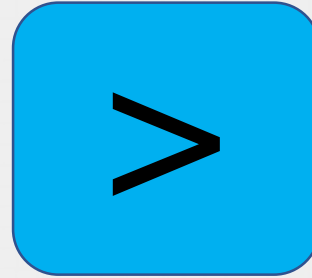
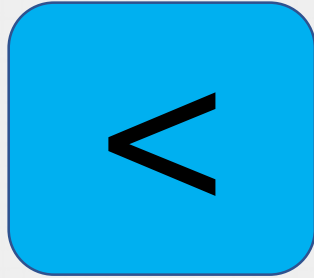


A football is lighter than a bowling ball.

An elephant is heavier than a bat.

Varied Fluency 4

Which symbol could you swap for the underlined words?



A football is lighter than a bowling ball.



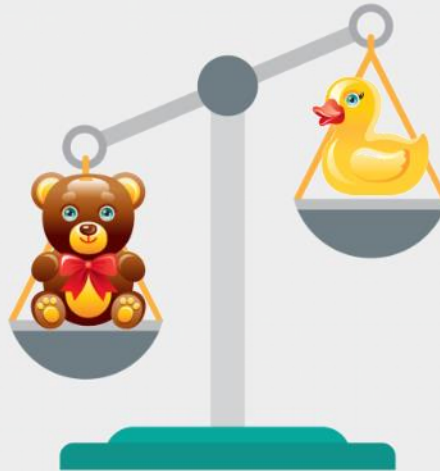
An elephant is heavier than a bat.

Reasoning 1

Is Aubrey correct?



The duck is heavier than the teddy.



Explain why.

Reasoning 1

Is Aubrey correct?



The duck is heavier than the teddy.



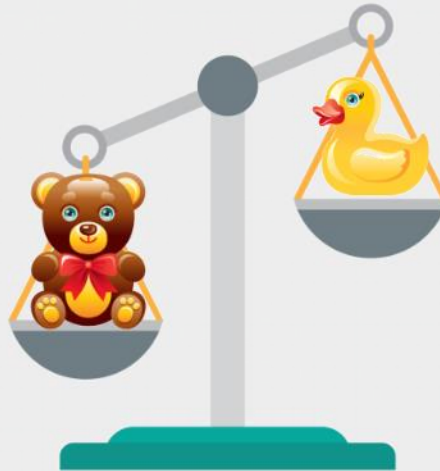
Explain why.
Aubrey is incorrect because...

Reasoning 1

Is Aubrey correct?



The duck is heavier than the teddy.



Explain why.

Aubrey is incorrect because the balance scale with the teddy is down. This means that the teddy is the heaviest, not the duck.

Problem Solving 1

Two identical oranges were put on each side of the balance scales.

Would the balance scales look like A or B?



A



B

Problem Solving 1

Two identical oranges were put on each side of the balance scales.

Would the balance scales look like A or B?



A



B

Reasoning 2

Isla wants an object that will be heavier than the brick.
Which item should she choose and why?



A



B



C

Reasoning 2

Isla wants an object that will be heavier than the brick.
Which item should she choose and why?



A



B



C

Isla should choose C because...

Reasoning 2

Isla wants an object that will be heavier than the brick.
Which item should she choose and why?



A



B

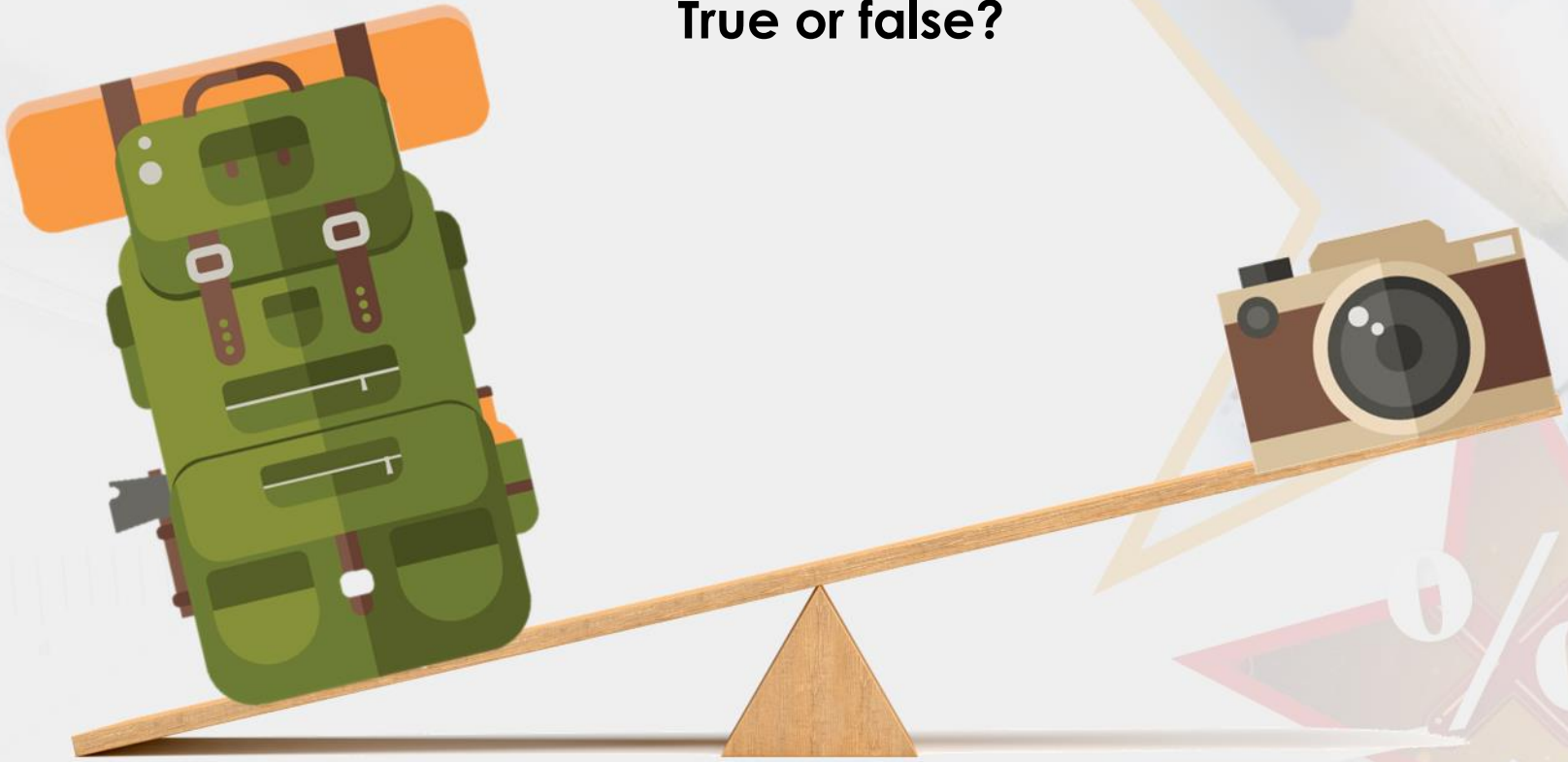


C

Isla should choose C because a hippo would be the heaviest out of all of the items.

Reasoning 1

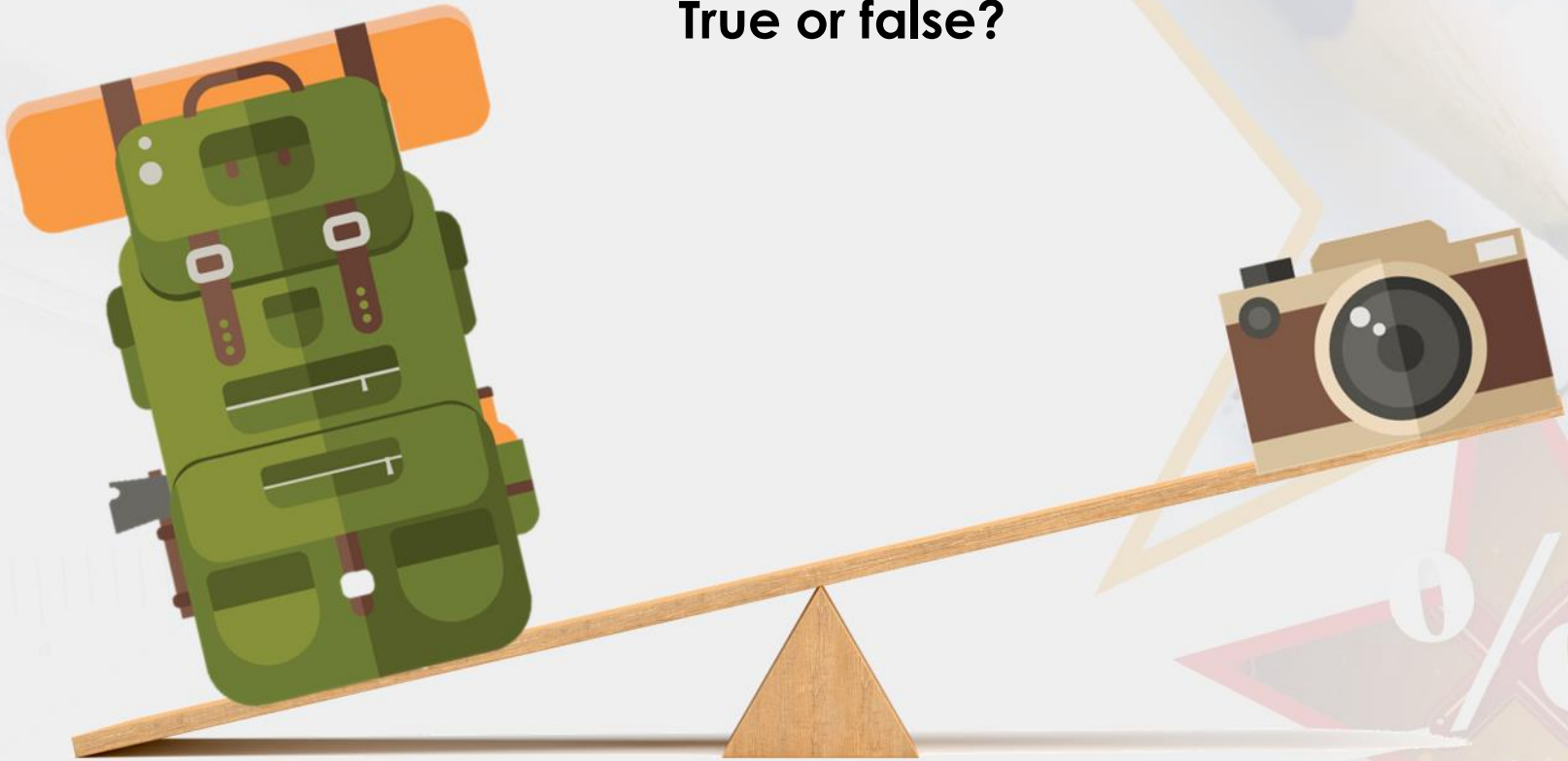
True or false?



Explain your answer.

Reasoning 1

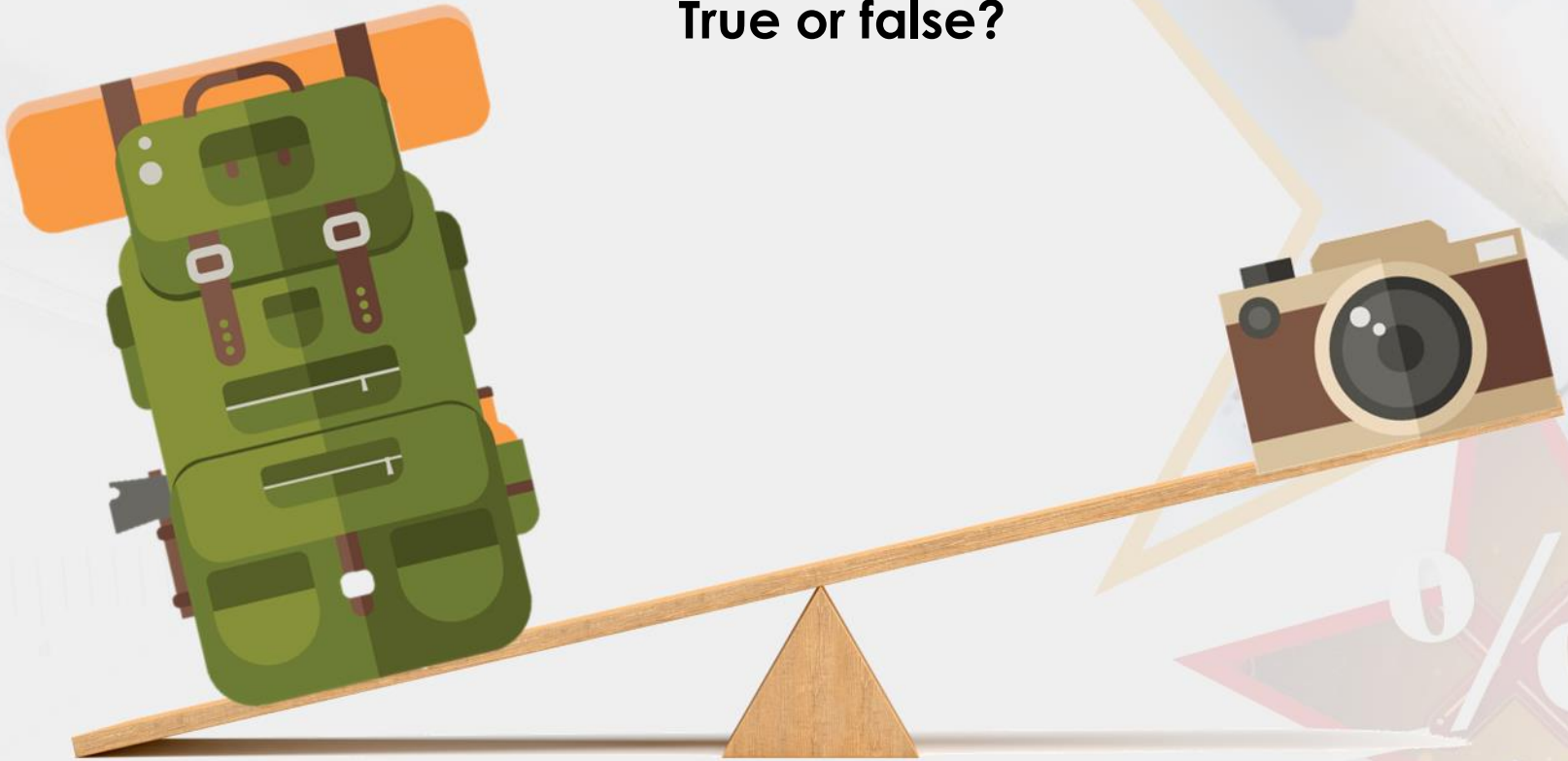
True or false?



**Explain your answer.
True, because...**

Reasoning 1

True or false?



Explain your answer.

True, because the scale shows the backpack is heavier than the camera. A backpack full of equipment would be heavier than one camera.

Problem Solving 1

Look at the scales below.



Use one item from each scale above to make the scale below correct. Which item goes in place of each letter?



Problem Solving 1

Look at the scales below.

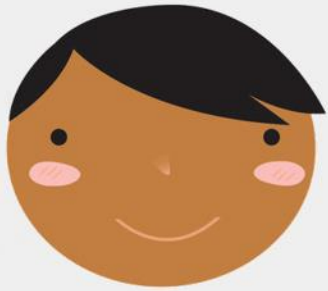


Use one item from each scale above to make the scale below correct. Which item goes in place of each letter?



Reasoning 2

Ishmael looks at the items on the scales. He writes,

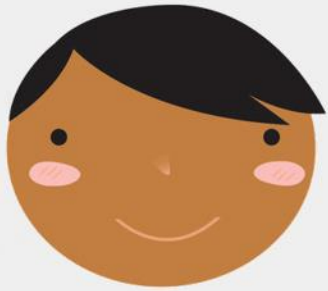


A shovel $<$ a torch

Is he correct? Explain your answer.

Reasoning 2

Ishmael looks at the items on the scales. He writes,

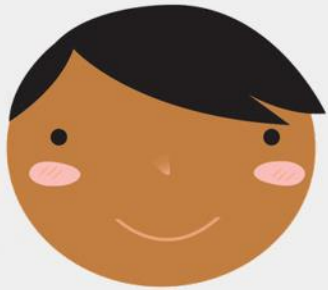


A shovel $<$ a torch

Is he correct? Explain your answer.
Ishmael is wrong because...

Reasoning 2

Ishmael looks at the items on the scales. He writes,



A shovel $<$ a torch

Is he correct? Explain your answer.

Ishmael has used the wrong symbol, he has written the shovel is less than the torch. The shovel is actually heavier than the torch so he should have written, a shovel $>$ a torch.