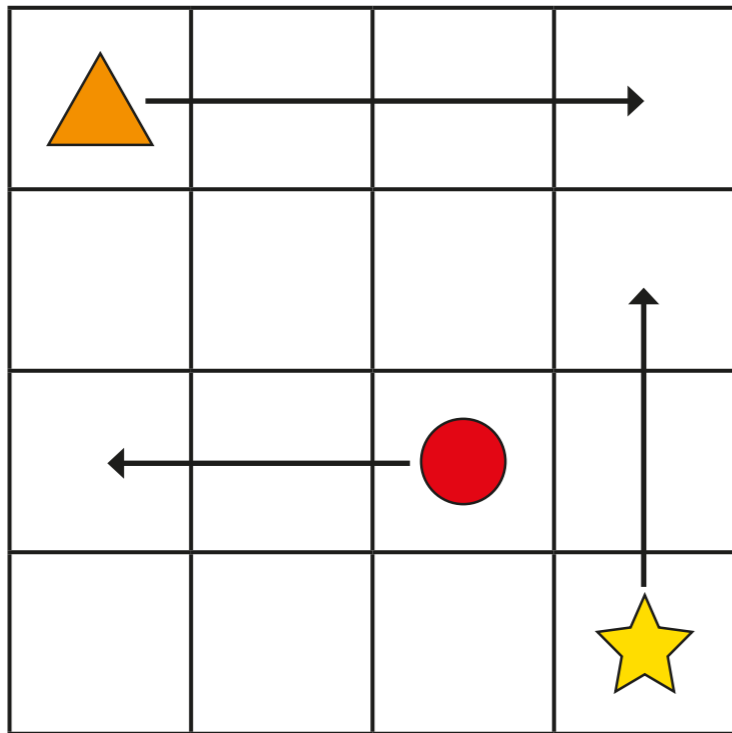


Describing movement

- 1 The arrows show where the shapes are moving to on the grid.



Use the word bank to help you complete the sentences.

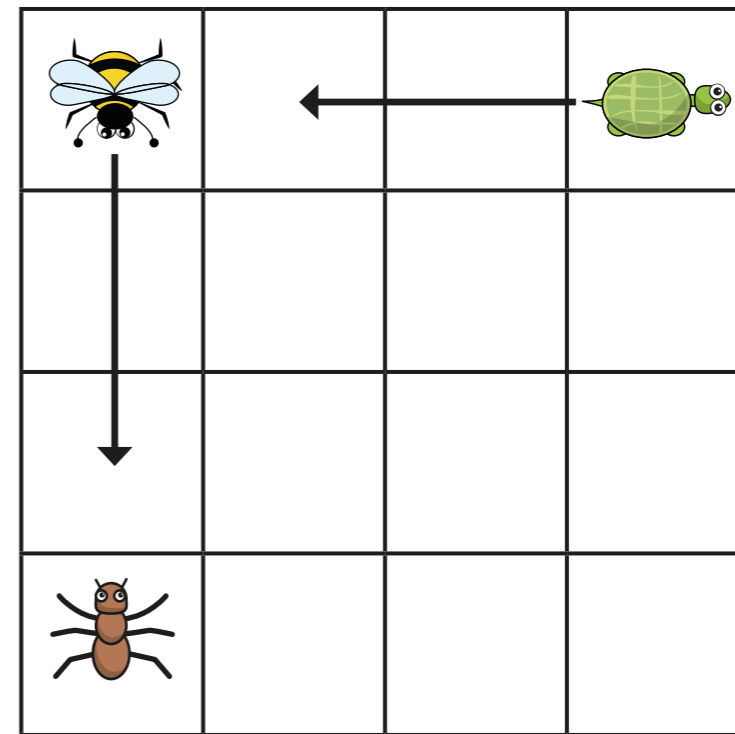
up left right

The triangle is moving squares _____.

The star is moving squares _____.

The circle is moving squares _____.

- 2 The arrows show where the animals are moving to on the grid.



- a) Use the word bank to help you complete the sentences.

backwards

forwards

The bee is moving squares _____.

The tortoise is moving squares _____.




- b) Draw an arrow to show the ant moving 3 squares to the right.

- c) Does it matter which way the animals are facing?





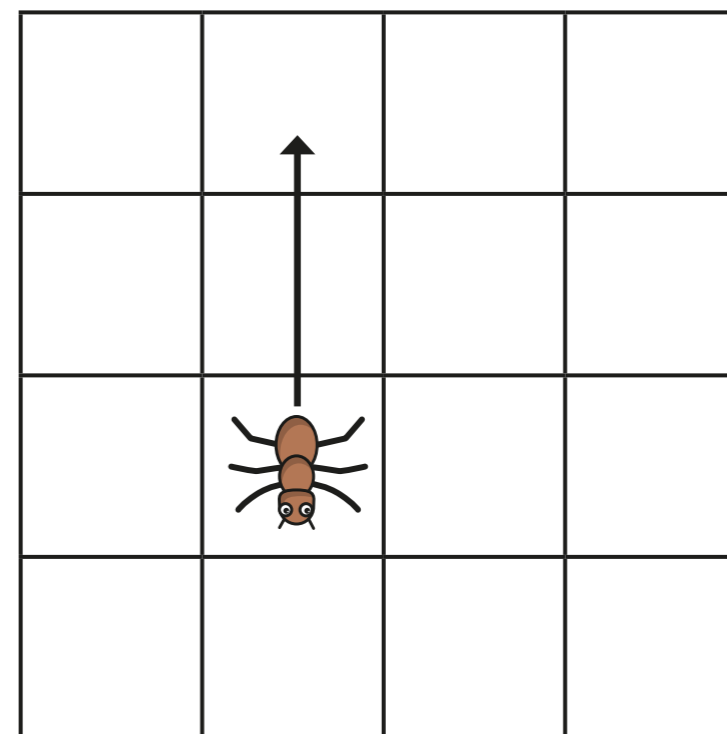
3 Annie, Teddy and Amir are moving on a grid.

 Teddy		cinema	school
 Annie			
 Amir		park	shop

- Draw an arrow to show Amir moving 2 squares forwards.
Where does Amir end up? _____
- Draw arrows to show Annie moving 3 squares forwards and 2 squares left.
Where does she end up? _____
- Teddy needs to get to the shop.
How could he get there?



4 Whitney and Tommy are describing movement.



Whitney

The ant is moving 2 squares up.

The ant is moving 2 squares backwards.



Tommy

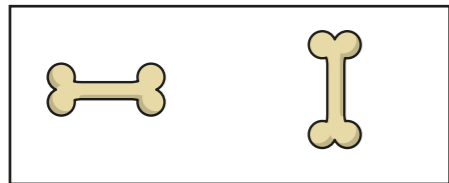
Who do you agree with? _____

Talk about it with a partner.



Describing turns

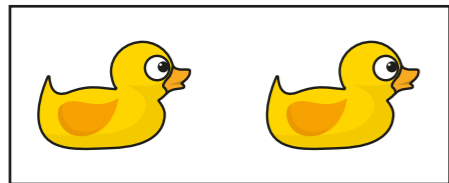
1 Match the picture to the turn.



full turn



half turn



quarter turn

2 First, the arrow is pointing up.
Then, it turns half a turn.

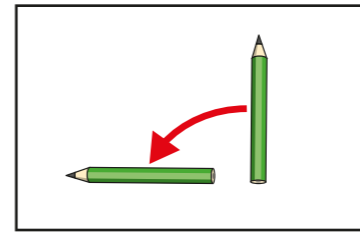


a) Draw to show what the arrow looks like now.

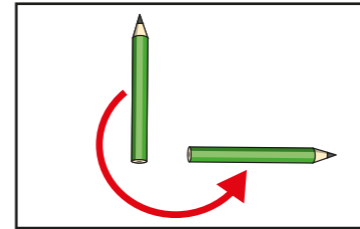
b) Complete the sentence.

Now, the arrow is pointing _____.

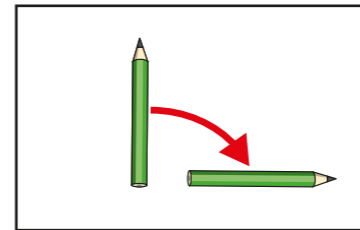
3 Match the picture to the turn.



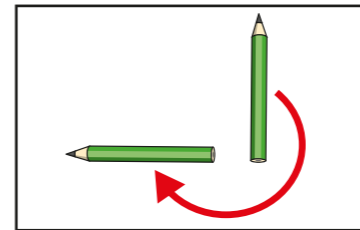
quarter turn
clockwise



quarter turn
anticlockwise



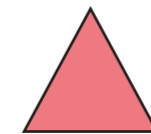
three-quarter turn
clockwise



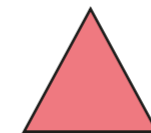
three-quarter turn
anticlockwise

4 Draw to show what the triangle will look like after each turn.

a) A quarter turn clockwise.



b) A three-quarter turn anticlockwise.



What do you notice?

5 Choose words from the word bank to complete the sentences.

quarter

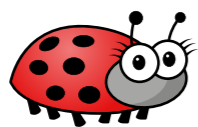
half

three-quarter

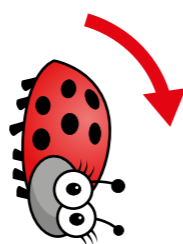
clockwise

anticlockwise

a) before



after

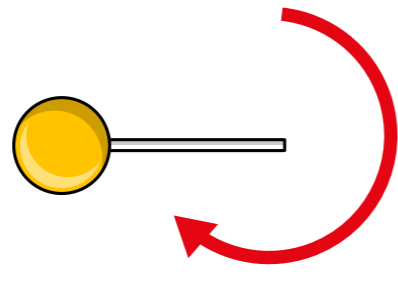


The ladybird has turned a _____
turn _____.

b) before

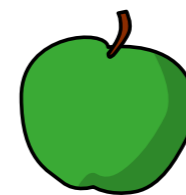


after

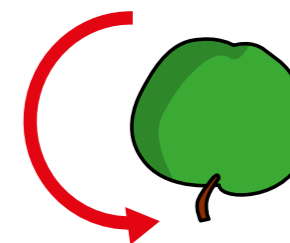


The lollipop has turned a _____
turn _____.

c) before



after



The apple has turned a _____
turn _____.

6 A square has been turned.

before



after



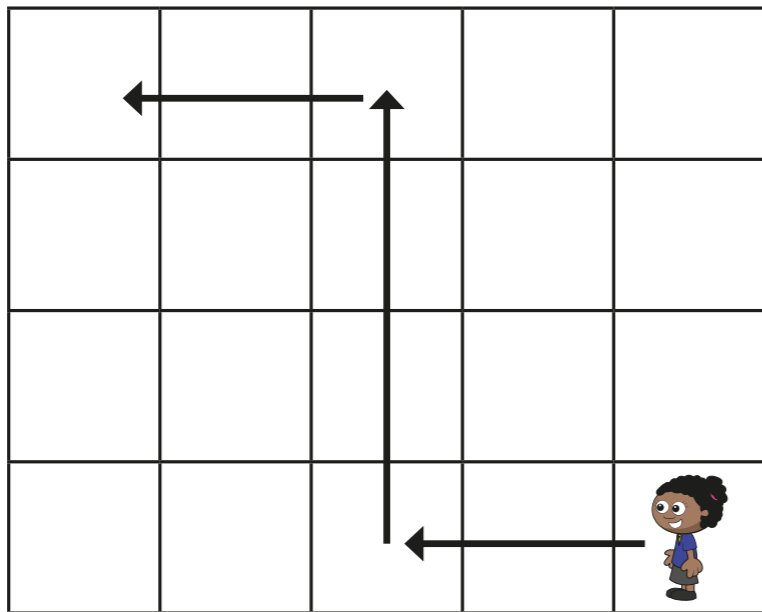
Complete the sentence.

The square has turned a _____
turn _____.

Is there more than one answer?

Describing movement and turns

1 Whitney is moving around a grid.



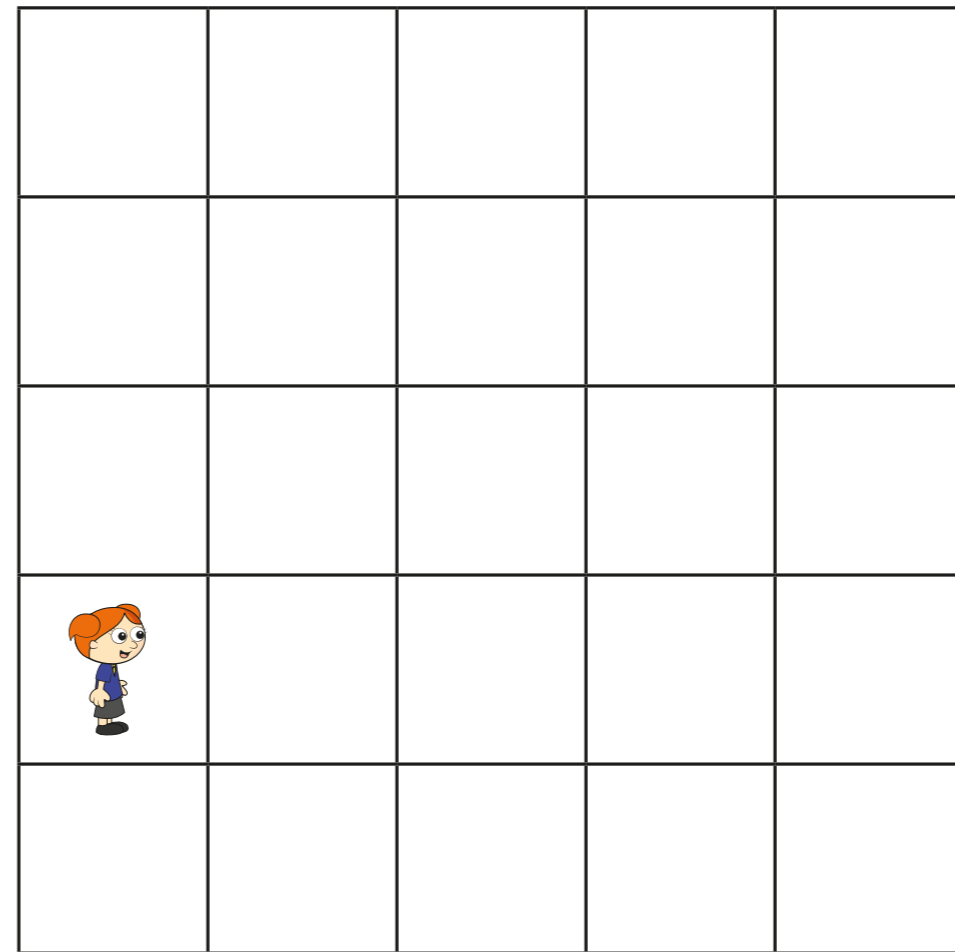
Complete the sentences to describe Whitney's movement.

First, she walks squares forwards.

Then she turns _____ and walks squares forwards.

Then she turns _____ and walks squares forwards.

2 Alex is moving around a grid.



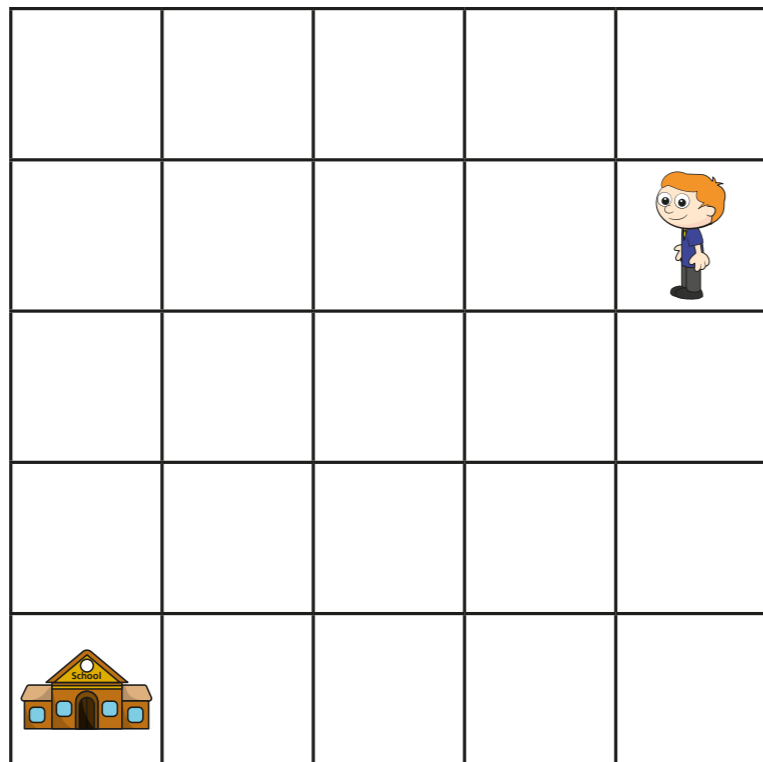
Draw arrows to show her movement.

- First, she walks 2 squares forwards.
- Then, she turns left and walks 3 squares forwards.
- Then she turns right and walks 2 squares forwards.

Could Alex have got there another way?



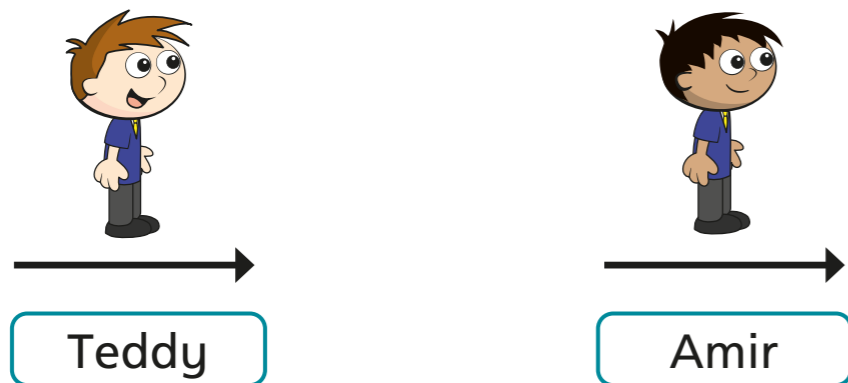
3 Ron is on his way to school.



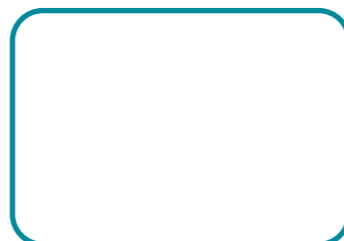
- a) Draw arrows to show the path Ron could take to school.
- b) Describe the path to a partner.
Did you choose the same path for Ron?



4 Teddy and Amir are both facing the same way.

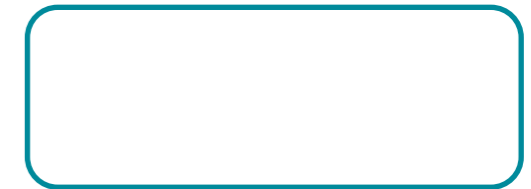


- a) Teddy turns left.
Draw an arrow to show the way he is facing now.



b) Amir turns a quarter turn anticlockwise.

Draw an arrow to show the way he is facing now.



What do you notice?

5 Rosie and Dexter are answering a question.

The sheep moves 2 squares forwards.
Where is the sheep now?

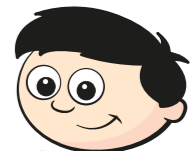
sheep		

Rosie



I know where the sheep is now.

Dexter



It is impossible to answer this.

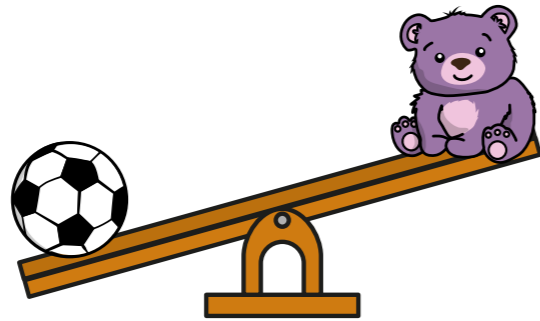
Who do you agree with? _____
Talk about it with a partner.



Compare mass

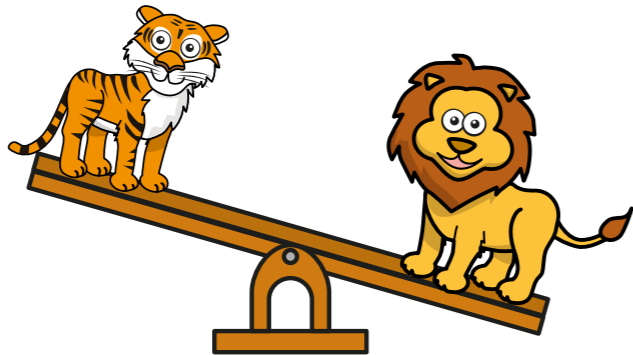
1 Use the words **heavier** or **lighter** to complete the sentences.

a)



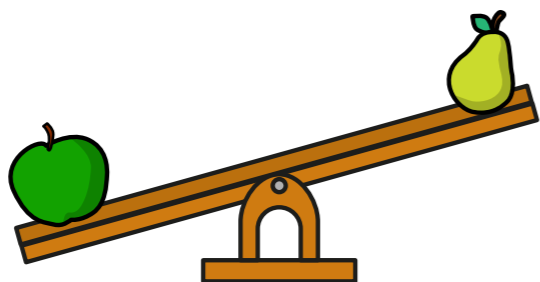
The ball is _____ than the teddy.

b)



The tiger is _____ than the lion.

c)

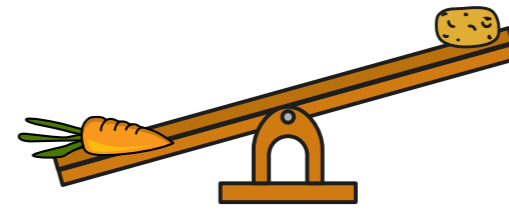


The pear is _____ than the apple.

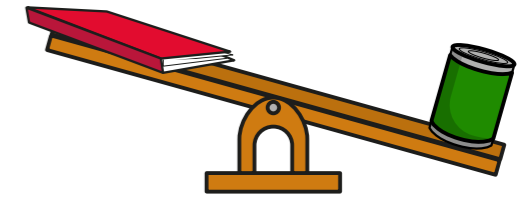
The apple is _____ than the pear.

2 Tick the heavier object on each scale.

a)

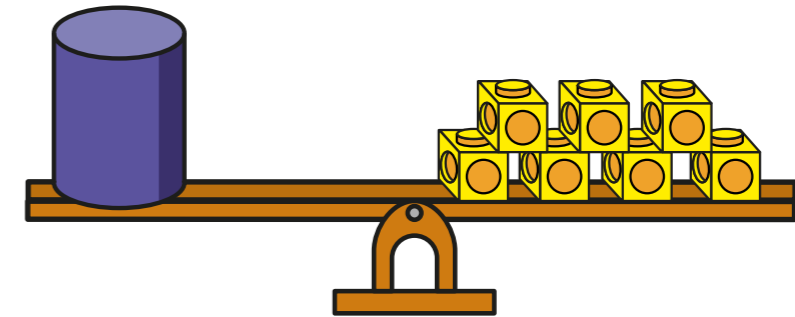


b)



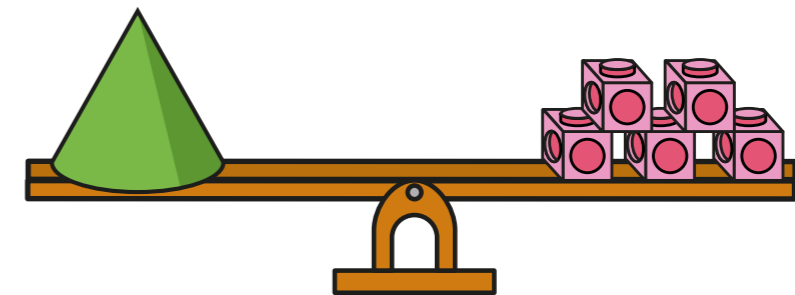
3 What is the mass of each object?

a)



cubes

b)



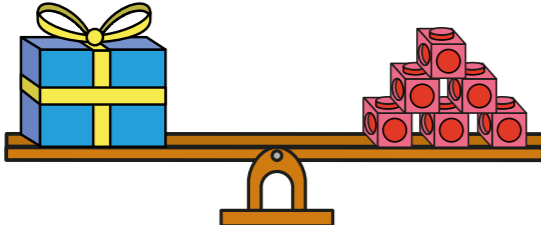
cubes

c) Which object is heavier? _____

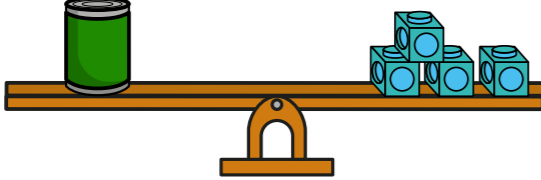


4 Which object is heavier?
Tick your answer.

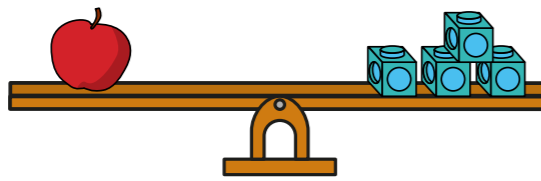
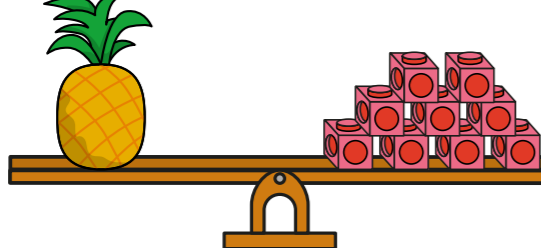
a)




b)




b)




or




or



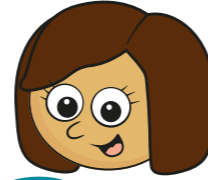
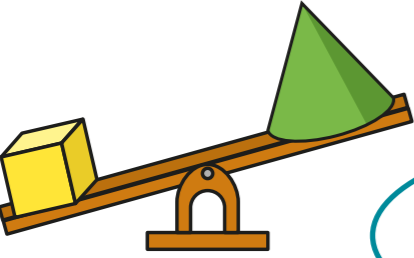
or



or



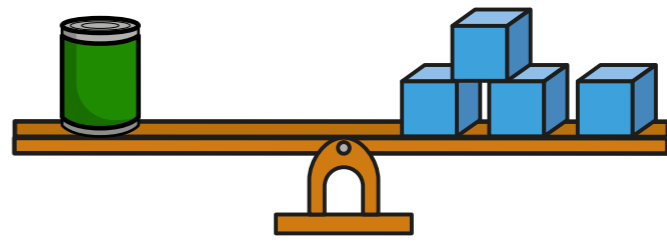
5 Kim puts two objects on the scales.



The cube is lighter, because it is smaller.

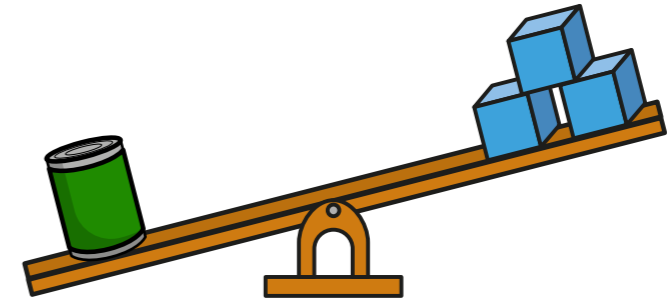
What mistake has Kim made?

6 Dora balances a tin with blocks.

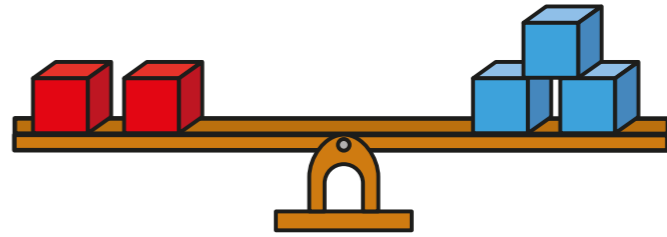


a) Complete the sentence.
1 tin has the same mass as blocks.

b) Explain why these scales do not balance.



7 Which blocks are lighter?
Tick your answer.



Talk about your answer with a partner.