

Read each one and answer the question underneath it.

- 1** Mia put a tin in one bucket and a cup in the other bucket. The tin side went down.

Circle the heavier one.

the tin

the cup

- 2** Sam put an apple and an orange into the same bucket. He says the scales will tell him which one is heavier.

Is Sam right? Circle yes or no.

yes

no

Circle what Sam has to do first.

Put the apple in one bucket and the orange in the other.

Wait longer for the beam to settle.

Hold both of them in his hands instead.

- 3** Ava weighed a jar against a mug. The mug side went up.

Circle the lighter one.

the jar

the mug

Read each one and answer the question underneath it.

- 1** Ella put a bag of rice in one bucket and a bag of beans in the other. The beam stayed level.

Circle what the scales are telling Ella.

The rice and the beans have the same mass.

The rice is heavier than the beans.

The scales are not working.

- 2** Noah says a level beam means the scales are broken.

Is Noah right? Circle yes or no.

yes

no

Write what a level beam tells you.

- 3** Tess weighed a big empty box against a small tin and the beam stayed level.

Circle what Tess knows now.

The box and the tin have the same mass.

The box is heavier, because it is bigger.

Read each one and answer the question underneath it.

- 1** Ruby has a book, a pencil case and a lunch box. She weighed the book against the pencil case and the pencil case went down. She weighed the pencil case against the lunch box and the lunch box went down.

Write the three in order, from lightest to heaviest.

Circle how many weighings Ruby needed.

one

two

three

- 2** Jack has a ball, a brick and a shoe. He weighed the ball against the brick and the brick went down. He weighed the brick against the shoe and the brick went down again.

Circle the object Jack already knows is the heaviest.

the ball

the brick

the shoe

Circle the two Jack still has to weigh together.

the ball and the brick

the ball and the shoe

the brick and the shoe

Read each one and answer the question underneath it.

- 1** Leo picked up a big empty box and a small tin. He said the box would be heavier because it is bigger. He put them on the scales and the tin side went down.

Was Leo right? Circle yes or no.

yes no

Circle what Leo should say now.

The tin is heavier, because its bucket went down.

The box is heavier, because it is much bigger.

Nobody can tell, because they look so different.

- 2** Amy says the biggest thing is always the heaviest.

Is Amy right? Circle yes or no.

yes no

**Write the name of something big that is lighter than something small.
Write both of them.**

Read each one and answer the question underneath it.

- 1** Tess has three jars. She weighed jar A against jar B and the beam stayed level. She weighed jar B against jar C and jar C went down.

Circle the heaviest jar.

jar A

jar B

jar C

Circle what Tess knows about jar A and jar B.

They have the same mass.

Jar A is heavier than jar B.

Jar B is heavier than jar A.

- 2** Sam weighed a sponge against a stone and the stone went down. He said the stone is heavier because stones are hard.

Circle the better reason.

The stone is heavier because its bucket went down.

The stone is heavier because stones are hard.

The sponge is lighter because it is soft.

Write one sentence telling Sam what the scales showed him.
