

## Chapter 7

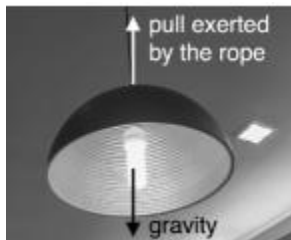
Student's Book: Practice Worksheet, pages. 107–108

1. True, False, True, False, False

2. (a) decreases

(b) His mass will stay the same.

3.



4. Add objects onto the boat. / Change the shape of the boat to have a smaller surface area.

## Activity Book

### Word Whizz, p. 68

Across

2. newtons
4. grams
6. thrust

Down

1. kilogram
3. weight
5. drag

### Let's Map It!, p. 69

The gravity of Earth pulls objects towards its centre.

Balanced forces do not change the motion of an object.

A stationary object remains at rest.

Unbalanced forces change the motion of an object.

A moving object speeds up, slows down or stops.

We draw force diagrams to show the forces acting on objects.

The weight of an object is a measure of the effect of gravity on the object.

The mass of an object is a measure of how much matter an object is made up of.

An object will float if the weight is equal to or less than the upthrust.

An object will sink if the weight is greater than the upthrust.

The mass and shape of an object can affect if the object floats or sinks.

**Let's Review, pages. 70–71**

1. (a)  $60 \times 10 = 600 \text{ N}$  (b)  $600 / 3 = 200 \text{ N}$

2. (a)



(b) Push the box harder.

	<b>Diagram A</b>	<b>Diagram B</b>
Forces are balanced.	✓	
Forces are unbalanced.		✓
The ball starts moving.		✓
The ball stays still.	✓	

4. can B has a larger mass than can A