Name _____ **Date** _____

End-of-unit 5 test

The End-of-unit test has been written by the authors. This may not fully reflect the approach of Cambridge Assessment International Education.

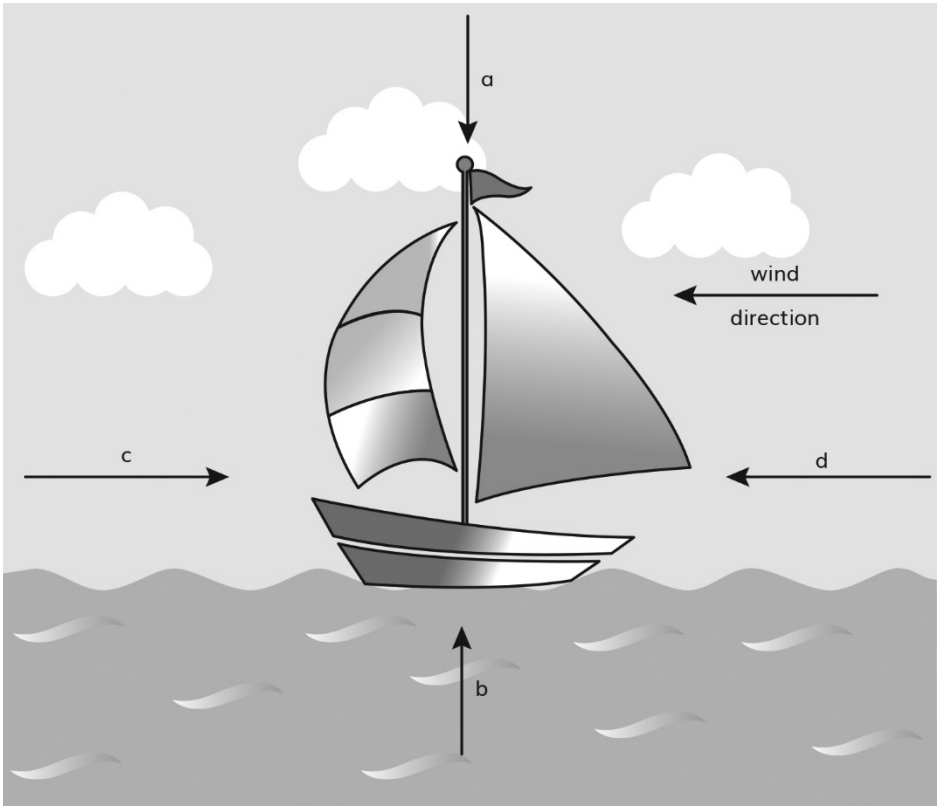
20 marks

1 Draw lines to link the words on the left with their meanings on the right.

One has been done for you as an example.

Gravity	A force between two surfaces trying to slide past each other.
Exert	A force that pushes something up against gravity or sideways against friction.
Friction	A mixture of metals.
Streamlined	A pulling force.
Thrust	A material with an area around it where magnetic force is active.
Alloy	To make a downwards, upwards or sideways force.
Magnet	A smooth, sleek shape.

2 Name the forces acting on this sailing boat:



a _____

b _____

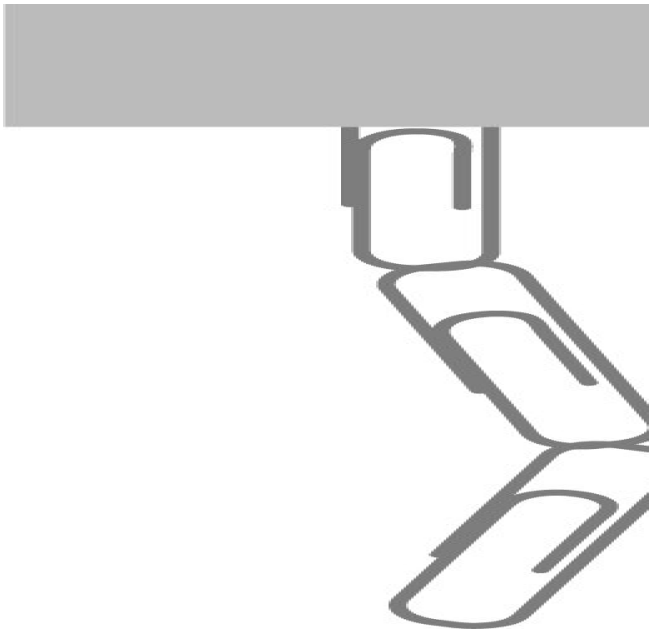
c _____

d _____

e If the wind becomes lighter, does the sailor loosen or tighten the sail to keep the same speed?

_____

3 Two learners carry out a test to compare the strengths of two bar magnets.
They test each magnet by observing how many paper clips are attracted to the magnet.
One learner holds the magnet in the same position. The other learner adds paper clips to the chain.



a Why are paper clips attracted to a bar magnet?

_____

b What is the independent variable in this investigation?

_____

c What is the dependent variable in this investigation?

_____

d The learners use a new set of identical paper clips to test each magnet. Why must they do this?

_____

e The second magnet did not attract as many paper clips as the first magnet.
Which magnet is the strongest?

_____

f Suggest a way the learners could check that their results were reliable.

_____

4 a What is a satellite?

_____

b Give an example of a natural satellite.

_____

c Name the force which keeps a satellite in orbit.

_____