

Force

Name : _____

Date : _____

Answer all the questions in the Science exercise book.

- 1 State the force used to carry out the following activities.

(a)



(b)



(c)



- 2 Explain the effects of force for the activities shown in the pictures below.

(a)



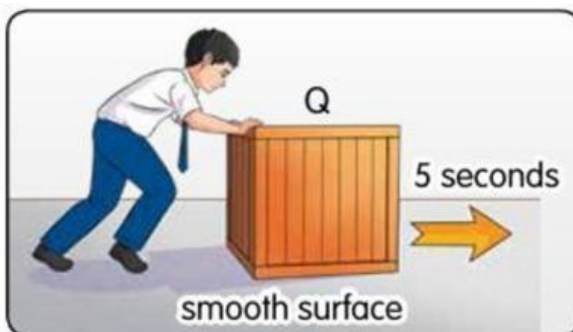
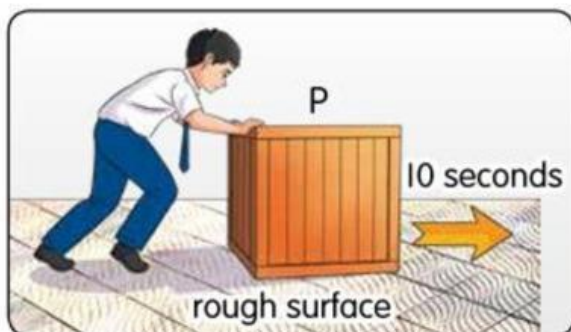
(b)



(c)



- 3 The pictures below show the time taken to move box P and Q for the same distance. Box P and Q also have the same mass.



(a) Why does it take a longer time to move box P compared to box Q?

(b) What is the factor that affects the movement of both boxes?

(c) Predict the time taken to move box P and box Q if the mass of the boxes is increased. Give your reasons.

4 State the effect of frictional force in each picture below.



5 The pictures below show problems involving frictional force. State the ways to overcome the problems.



6 Tick (✓) the correct statements.

(a) Air pressure is produced due to the collisions of air particles on the surface of an object.

(b) Air pressure at the peak of a mountain is higher than the air pressure at the base.

(c) Air pressure will increase when the number of air particles increases.

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7 Answer the questions below based on the following statement.

Many climbers require oxygen tanks to reach the peak of Mount Everest safely.

(a) Why do climbers use oxygen tanks when they are at the peak of Mount Everest?

(b) How do you describe the air pressure at the peak of the mountain based on your answer in 7(a)?

(c) State the relationship between elevation level of the mountain and air pressure.
