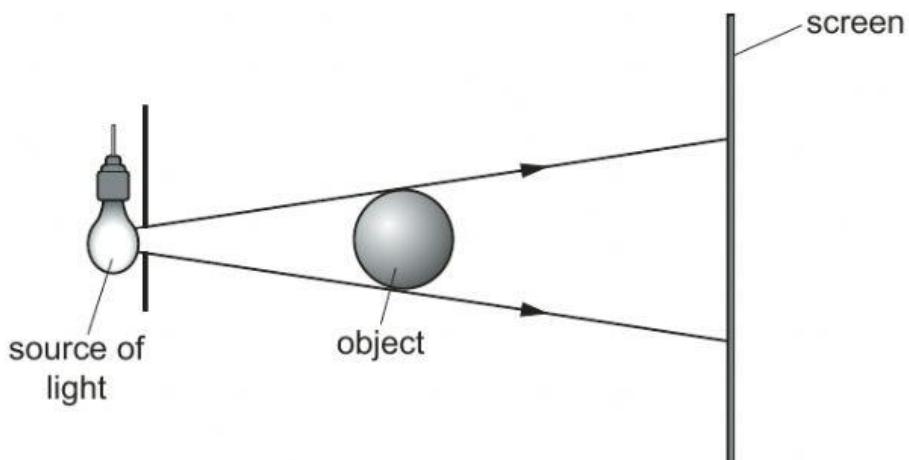


7 Oliver draws a diagram to show how shadows are made.



(a) Oliver has **not** labelled the position of the shadow.

Label the position of the shadow on the diagram.

[1]

(b) Explain what makes the shadow.

[1]

(c) Describe what Oliver does to make the shadow bigger.

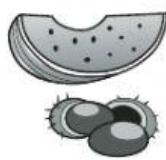
[1]

8 The pictures show different stages in the life cycle of plants.

The pictures are **not** in the correct order.



A insect picks up pollen



B plant makes seeds



C insect carries pollen



D flowers grow



E new plant grows



F animal disperses seeds



G insect pollinates flowers

(a) Which stage comes next **after** stage **C** (insect carries pollen)?

Circle the correct answer.

A

B

D

E

G

[1]

(b) Which stage comes next **after** stage **F** (animal disperses seeds)?

Circle the correct answer.

A

B

D

E

G

[1]

9 Here is a list of sentences.

Decide if each sentence is true or false.

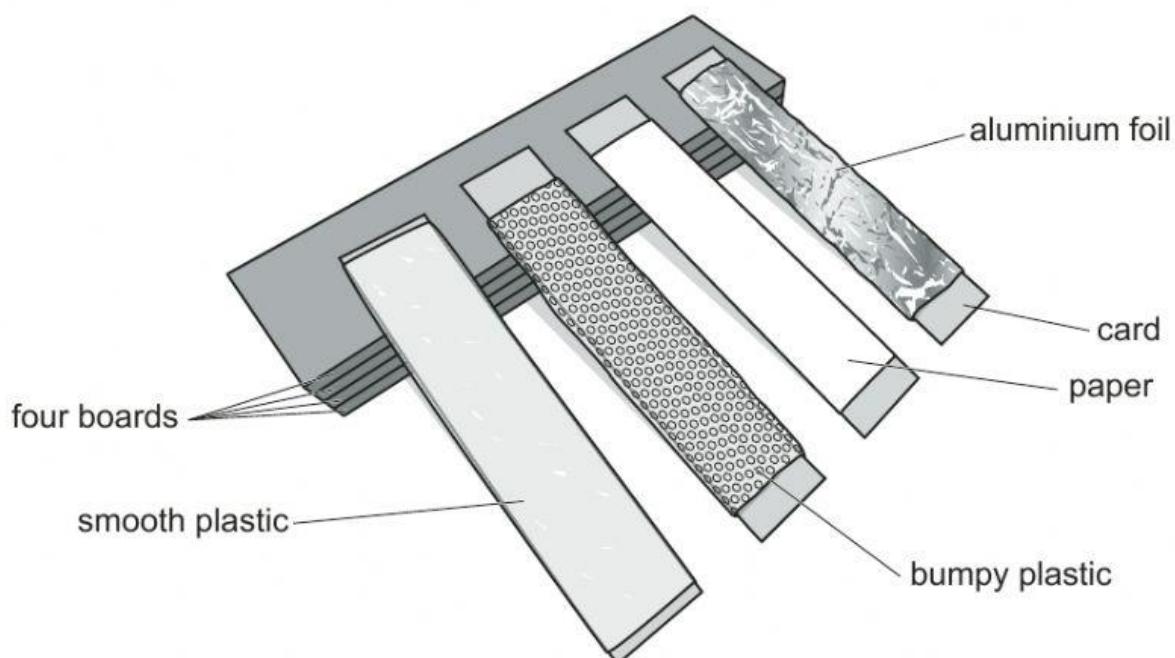
Tick (✓) the correct box.

sentence	true	false
Burning diesel fuel in a truck is irreversible.	<input type="checkbox"/>	<input type="checkbox"/>
Condensation of steam is reversible.	<input type="checkbox"/>	<input type="checkbox"/>
Sugar dissolves in water to form a solution.	<input type="checkbox"/>	<input type="checkbox"/>
Sand is soluble in water.	<input type="checkbox"/>	<input type="checkbox"/>
Evaporation separates a mixture of sugar and sand.	<input type="checkbox"/>	<input type="checkbox"/>
Dissolving a solid in water is reversible.	<input type="checkbox"/>	<input type="checkbox"/>
A magnet separates a mixture of gold and silver.	<input type="checkbox"/>	<input type="checkbox"/>
Rusting of iron is reversible.	<input type="checkbox"/>	<input type="checkbox"/>

[4]

10 Blessy investigates friction.

She uses four different materials.



Blessy

- puts each material on some card
- puts the end of each card onto four boards
- rolls a ball down each material.

(a) Complete the sentences.

Blessy uses the boards to

.....

Blessy always uses four boards to

.....

[2]

(b) Complete the prediction.

Choose from

aluminium foil

bumpy plastic

paper

smooth plastic

least friction

most friction

no friction

The ball will take the longest time to reach the end of the
.....

This is because this material has

[1]

(c) Blessy wants to make the investigation more reliable.

Write down **one** thing she does to make the investigation more reliable.

..... [1]