

SMART EXAM RESOURCES

CAMBRIDGE PRIMARY STAGE 6 PHYSICS

TOPIC: MASS AND WEIGHT- MCQ's

Quiz-2

1. Select the correct answer option:

Which statement about the masses and weights of objects on the Earth is correct?

- A** A balance can only be used to compare weights, not masses.
- B** Heavy objects always have more mass than light ones.
- C** Large objects always have more mass than small ones.

- A) A
- B) B
- C) C
- D) D

2. Select the correct answer option:

Which statement is correct?

- A** Mass is a gravitational force but weight is not a gravitational force.
- B** Mass is not a gravitational force and weight is not a gravitational force
- C** The unit of mass is the kilogram and the unit of weight is the newton.
- D** The unit of mass is the newton and the unit of weight is the kilogram.

- A) A
- B) B
- C) C
- D) D

3. Select the correct answer option:

A concrete post is carried up a very high mountain. At the top of the mountain, the gravitational field is slightly weaker than at the bottom.

What is the effect of this weaker field on the mass and on the weight of the post at the top of the mountain?

	mass	weight
A	is less	is less
B	is less	is unchanged
C	is unchanged	is less
D	is unchanged	is unchanged

- A) A
- B) B
- C) C
- D) D

4. Select the correct answer option:

Which statement about mass or weight is correct?

- A** Mass is a force.
- B** Mass is measured in newtons.
- C** Weight is a force.
- D** Weight is measured in kilograms.

- A) A
- B) B
- C) C
- D) D

5. Select the correct answer option:

Diagram 1 shows a piece of flexible material that contains many pockets of air. Diagram 2 shows the same piece of flexible material after it has been compressed so that its volume decreases.

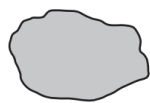


diagram 1
(before compression)

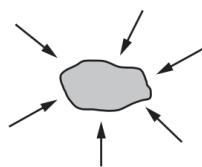


diagram 2
(after compression)

What happens to the mass and to the weight of the flexible material when it is compressed?

	mass	weight
A	increases	increases
B	increases	no change
C	no change	increases
D	no change	no change

- A) A
- B) B
- C) C
- D) D

6. Select the correct answer option:

Which row contains two correct statements about the mass and the weight of an object?

	mass of an object	weight of an object
A	is measured using a measuring cylinder	is measured using a balance
B	is the gravitational force exerted on the object	is the amount of matter in the object
C	is measured in newtons	is measured in kilograms
D	is the same everywhere	can vary from place to place

- A) A
- B) B
- C) C
- D) D

7. Select the correct answer option:

A student writes about mass and weight.

Which statement is correct?

- A** A ship which is floating has mass but no weight.
- B** Mass is a scientific word that means the same as weight.
- C** Mass is measured in newtons.
- D** The mass of an astronaut is the same on the Moon as on the Earth.

A) A

B) B

C) C

D) D