

Mass and Weight – 2020 IGCSE 0625

1. Nov/2020/Paper_11/No.4

A student compares the weights of different objects.

Which apparatus does he use?

- A balance
- B measuring cylinder
- C stop-watch
- D thermometer

2. Nov/2020/Paper_11/No.5

Which quantity is weight an example of?

- A acceleration
- B force
- C mass
- D pressure

3. Nov/2020/Paper_12/No.4

A stone has a weight of 4.1 N.

What is the mass of the stone?

- A 0.41 kg B 2.4 kg C 4.1 kg D 41 kg

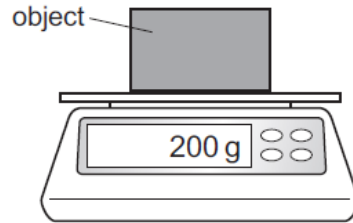
4. Nov/2020/Paper_12/No.5

Which quantity is weight an example of?

- A acceleration
- B force
- C mass
- D pressure

5. Nov/2020/Paper_13/No.4

The diagram shows an object on a balance. The reading on the balance is shown.



Which quantity is shown?

- A the mass of the object
- B the pressure exerted by the object
- C the volume of the object
- D the weight of the object

6. Nov/2020/Paper_13/No.5

Which quantity is weight an example of?

- A acceleration
- B force
- C mass
- D pressure

7. Nov/2020/Paper_21/No.4

Which quantity is weight an example of?

- A acceleration
- B force
- C mass
- D pressure

8. Nov/2020/Paper_21/No.5

A sphere P, made of steel, has a weight of 10 N on Earth.

Another sphere Q, also made of steel, has a weight of 10 N on Mars.

The gravitational field strength on Earth is greater than the gravitational field strength on Mars.

Which statement is correct?

- A The mass of sphere P is the same as the mass of sphere Q.
- B The mass of sphere P is less than the mass of sphere Q.
- C On Mars, the weight of sphere P is more than 10 N.
- D On Earth, the weight of sphere Q is less than 10 N.

9. Nov/2020/Paper_22/No.4

Which quantity is weight an example of?

- A acceleration
- B force
- C mass
- D pressure

10. Nov/2020/Paper_22/No.5

Which statement about the mass of an object is correct?

- A It changes when the object is lifted further from the ground.
- B It is the gravitational force on the object.
- C It is zero if the object is in orbit around the Earth.
- D It resists any change in motion of the object.

11. Nov/2020/Paper_23/No.4

Which quantity is weight an example of?

- A acceleration
- B force
- C mass
- D pressure

12. Nov/2020/Paper_23/No.5

An object of mass 1.0kg is at rest on Earth. An identical object is at rest on a planet with a gravitational field strength of twice that on Earth.

Which row correctly compares the object on the planet to the object on Earth?

	its weight	its acceleration when the same horizontal force is applied
A	double	equal to that on Earth
B	double	half that on Earth
C	half	equal to that on Earth
D	half	half that on Earth

Fig. 2.1 shows a beaker containing liquid on a top pan balance.

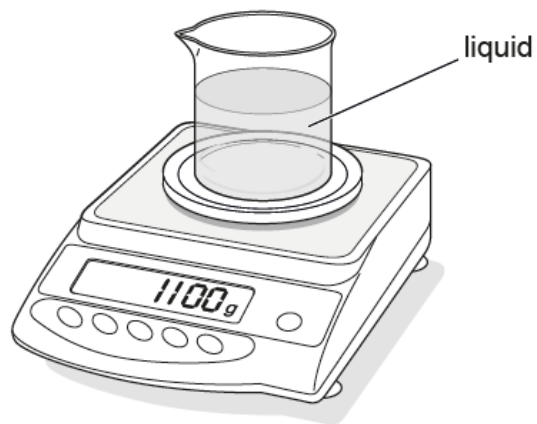


Fig. 2.1

The mass of the empty beaker is 400 g.

(a) Using the information in Fig. 2.1, determine the mass of the liquid in the beaker.

mass = g [1]

(b) The beaker contains 750 cm^3 of liquid.

Calculate the density of the liquid.

density = g/cm^3 [3]

(c) Calculate the weight of the empty beaker.

weight = N [4]

[Total: 8]