

# PHYSICS

0625 Paper 2

2017 — 2023

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1 - (0625/21\_Summer\_2017\_Q1) - *Measurements And Units*

What is the most accurate and precise method to measure the thickness of a coin?

- A Use a micrometer screw gauge.
- B Use a ruler and look at the scale perpendicularly.
- C Use a top pan balance.
- D Use the displacement method with water in a measuring cylinder.

2 - (0625/23\_Summer\_2017\_Q2) - *Measurements And Units*

A pendulum is swinging. Five students each measure the time it takes to swing through ten complete swings.

Three students measure the time as 17.2 s. Another student measures it as 16.9 s, and the fifth student measures it as 17.0 s.

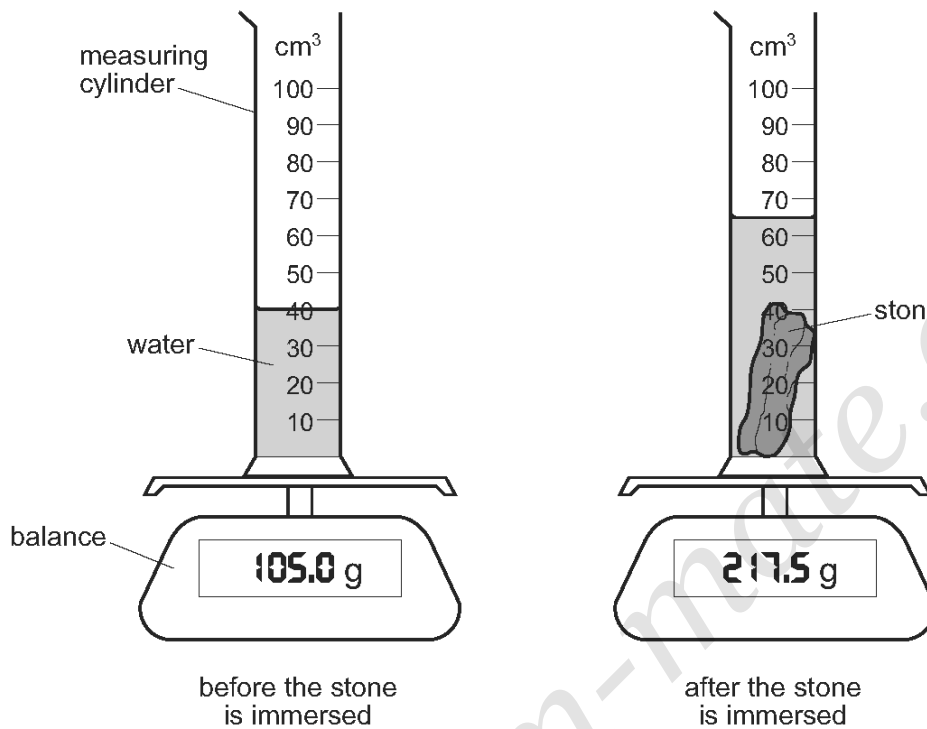
What is the average period of the pendulum?

- A 1.69 s      B 1.70 s      C 1.71 s      D 1.72 s

3 - (0625/21\_Summer\_2017\_Q5) - Measurements And Units

A measuring cylinder containing only water is placed on an electronic balance. A small, irregularly shaped stone is now completely immersed in the water.

The diagrams show the equipment before and after the stone is immersed.

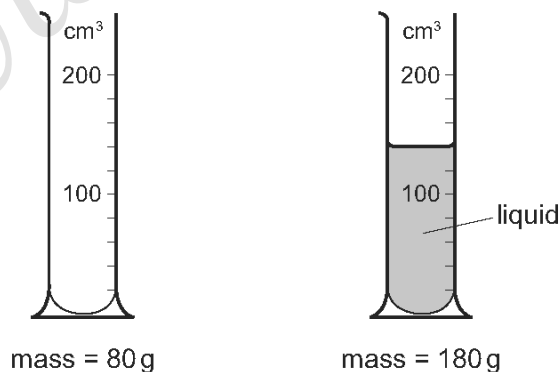


What is the density of the material of the stone?

- A  $1.7 \text{ g/cm}^3$     B  $3.3 \text{ g/cm}^3$     C  $4.5 \text{ g/cm}^3$     D  $8.7 \text{ g/cm}^3$

4 - (0625/22\_Summer\_2017\_Q5) - Measurements And Units

The masses of a measuring cylinder before and after pouring some liquid into it are shown in the diagram.



What is the density of the liquid?

- A  $\frac{100}{120} \text{ g/cm}^3$     B  $\frac{100}{140} \text{ g/cm}^3$     C  $\frac{180}{120} \text{ g/cm}^3$     D  $\frac{180}{140} \text{ g/cm}^3$

5 - (0625/23\_Summer\_2017\_Q5) - *Measurements And Units*

A steel ball bearing has a mass of 24 g and a density of  $8.0 \text{ g/cm}^3$ . It is lowered into a measuring cylinder containing  $12 \text{ cm}^3$  of water.

What is the new water level in the cylinder?

- A  $3.0 \text{ cm}^3$       B  $4.0 \text{ cm}^3$       C  $15 \text{ cm}^3$       D  $16 \text{ cm}^3$

6 - (0625/21\_Winter\_2017\_Q1) - *Measurements And Units*

A student measures the volume of a cork.

He puts some water into a measuring cylinder and then one glass ball. He puts the cork and then a second, identical glass ball into the water as shown.

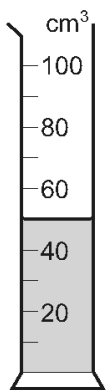


diagram 1

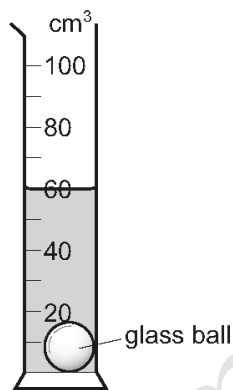


diagram 2

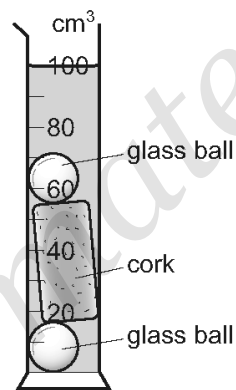


diagram 3

Diagram 1 shows the first water level.

Diagram 2 shows the water level after one glass ball is added.

Diagram 3 shows the water level after the cork and the second glass ball are added.

What is the volume of the cork?

- A  $30 \text{ cm}^3$       B  $40 \text{ cm}^3$       C  $50 \text{ cm}^3$       D  $100 \text{ cm}^3$

# ANSWERS

[www.exam-prepare.com](http://www.exam-prepare.com)

1 - (0625/21\_Summer\_2017\_Q1) - *Measurements And Units*

A

2 - (0625/23\_Summer\_2017\_Q2) - *Measurements And Units*

C

3 - (0625/21\_Summer\_2017\_Q5) - *Measurements And Units*

C

4 - (0625/22\_Summer\_2017\_Q5) - *Measurements And Units*

B

5 - (0625/23\_Summer\_2017\_Q5) - *Measurements And Units*

C

6 - (0625/21\_Winter\_2017\_Q1) - *Measurements And Units*

A

7 - (0625/22\_Winter\_2017\_Q1) - *Measurements And Units*

B

8 - (0625/23\_Winter\_2017\_Q1) - *Measurements And Units*

A

9 - (0625/21\_Summer\_2018\_Q1) - *Measurements And Units*

A

10 - (0625/21\_Summer\_2018\_Q14) - *Measurements And Units*

D