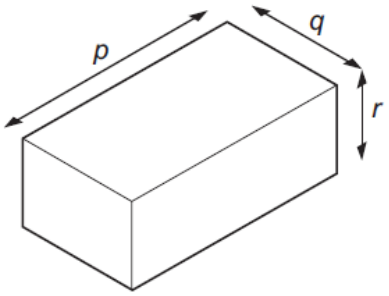
# Density – 2022 November IGCSE 0625

**1.** Nov/2022/Paper_11/No.4

The diagram shows the dimensions of a solid rectangular block of metal of mass *m*.




Which expression is used to calculate the density of the metal?

**A** $\frac{m}{(p \times q)}$

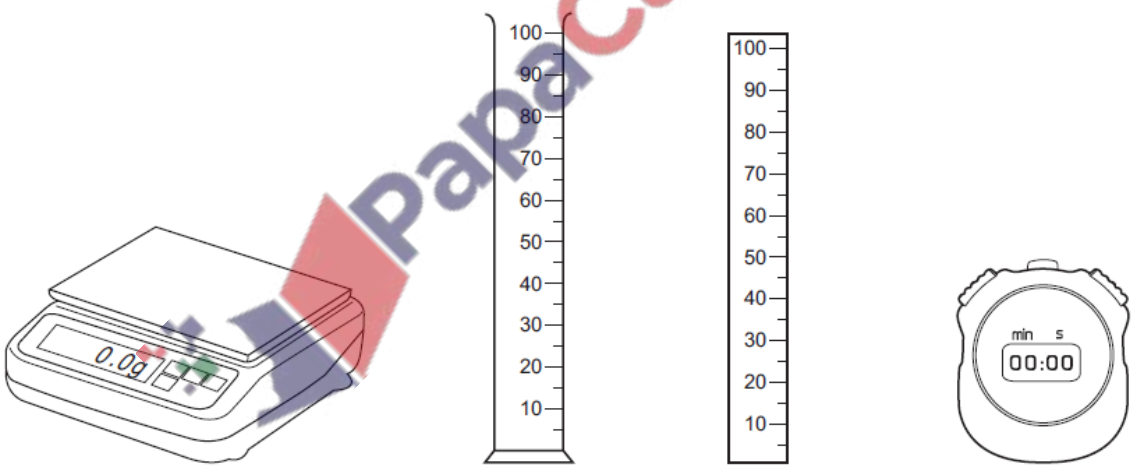
**B** $\frac{m}{(p \times q \times r)}$

**C** $m \times p \times q$

**D** $m \times p \times q \times r$

**2.** Nov/2022/Paper_12,13,22,23/No.4

The diagram shows four pieces of laboratory apparatus.




balance | measuring cylinder | ruler | stop-watch

Which pieces of apparatus are used to find the density of a liquid?

**A** balance and stop-watch

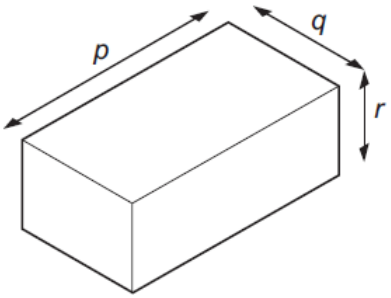
**B** balance and measuring cylinder

**C** measuring cylinder and ruler

**D** stop-watch and ruler

**3.** Nov/2022/Paper_21/No.4

The diagram shows the dimensions of a solid rectangular block of metal of mass $m$.




Which expression is used to calculate the density of the metal?

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**C** $m \times p \times q$

**D** $m \times p \times q \times r$

**4.** Nov/2022/Paper_33/No.2

A builder buys some tiles to repair a floor. He checks that the new tiles are the same size as the tiles on the floor.

The dimensions of the tiles on the floor are 25 cm × 20 cm × 0.30 cm.

The new tiles are shown in Fig. 2.1.

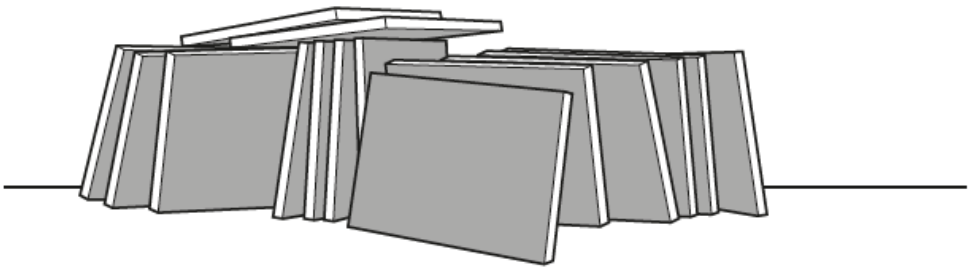

**Fig. 2.1**

**(a) (i)** State the name of a suitable instrument for measuring the length and width of each tile.

..... [1]

**(ii)** Describe how to determine the average thickness of **one** new tile.

.....

.....

..... [3]

**(b)** The dimensions of a tile are 25 cm × 20 cm × 0.30 cm.

The mass of the tile is 410 g.

**(i)** Calculate the volume of the tile.

volume = ..... $cm^3$ [1]

**(ii)** Calculate the density of the tile. Include the unit in your answer.

density = ..... unit ..... [4]

**(iii)** Calculate the weight of the tile.

weight = ..... N [3]

[Total: 12]