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GCSE Exam Questions

Pressure Force Area | Ratio & Proportion

GCSE Exam Questions: Pressure Force Area

1) Work out the force when the pressure is 80 N/m^2 and the area is 16 m^2.

Circle your answer.

96 N 1280 N 5 N 0.2 N

(1 mark)

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2) Work out the area when a force of 4500 Newtons results in a pressure of 90 N/m^2.

..... m^2

(2 marks)

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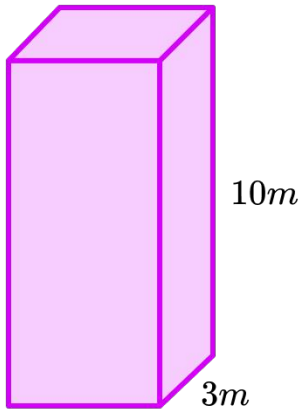
3) A block is resting on the floor.

The downward force of the block is 4800 N.



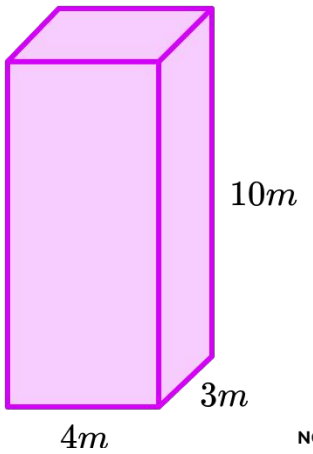
NOT to scale

Calculate the pressure.

..... N/m^2

(3 marks)

GCSE Exam Questions: Pressure Force Area Answers

	Question	Answer	Marks
1)	Work out the force when the pressure is 80 N/m^2 and the area is 16 m^2. Circle your answer. 96 N 1280 N 5 N 0.2 N	1280 N	**(1)**
2)	Work out the area when a force of 4500 Newtons results in a pressure of 90 N/m^2.	$Area = 4500 \div 90$ $= 50\ m^2$	**(1)** **(1)**
3)	A block is resting on the floor. The downward force of the block is 4800 N.  NOT to scale Calculate the pressure.	$Area = 4 \times 3 = 12$ $Pressure = 4800 \div 12$ $= 400\ N/m^2$	**(1)** **(1)** **(1)**

Where to go next?

For more diagnostic questions, and GCSE maths revision resources and worksheets to support students in fixing any misconceptions take a look at the free Third Space Learning GCSE maths revision pages.

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