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Moments

Question Paper

Course	CIE IGCSE Physics
Section	1. Motion, Forces & Energy
Topic	Moments
Difficulty	Easy

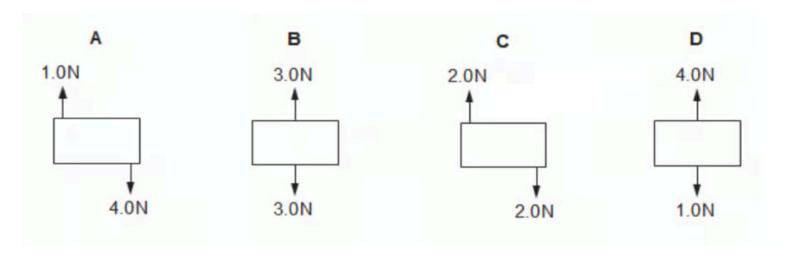
Time Allowed 10

Score /5

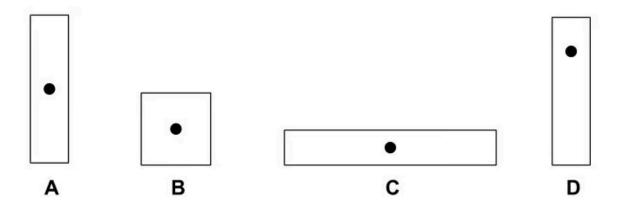
Percentage /100

Four objects are shown below. Each is acted on by two forces.

Which of the objects is in equilibrium?

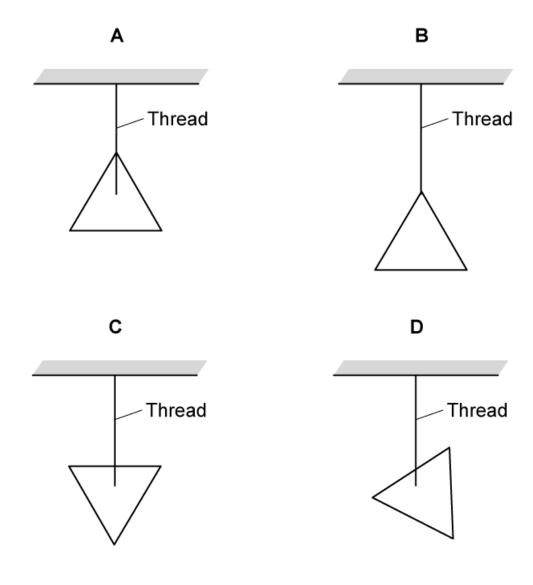


Four cuboids are shown in the diagram below. The position of their centre of gravity is also shown.

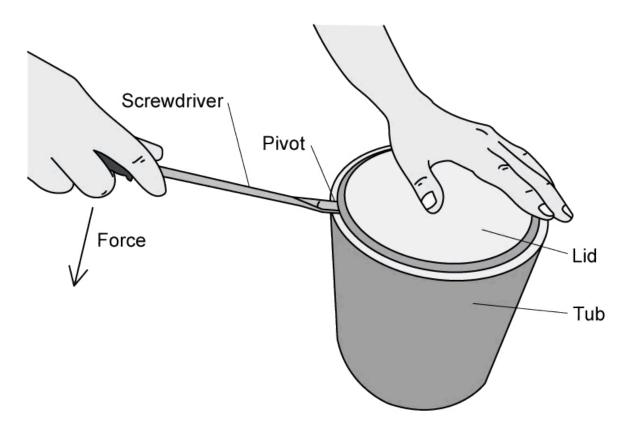


Which of the cuboids is the most stable?

A triangle with uniform density is suspended from a thread. Which diagram shows a system which is not in equilibrium?



A woman is using a screwdriver to prise the lid off a cylindrical tub of paint.

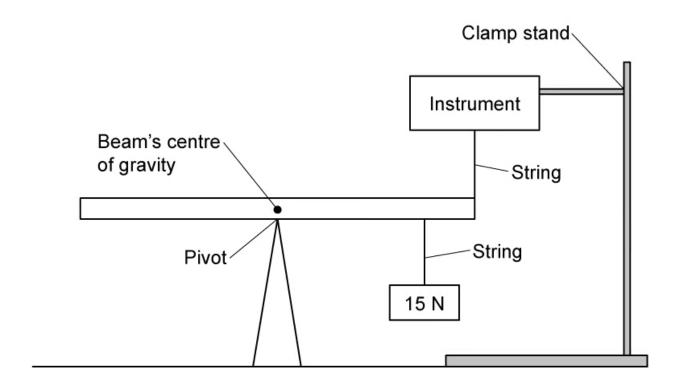


Which row states how she would increase the moment applied by the greatest amount?

	Type of screwdriver	Force applied
Α	Wider	Double
В	Wider	Half
С	Longer	Double
D	Longer	Half

Extended tier only

In a classroom, a uniform beam with a pivot at its centre has a 15 N weight suspended from one end. An instrument fixed to the ceiling is attached to the same end.



What instrument must be used to show that the resultant moment on a system in equilibrium is zero?

- A. Joulemeter
- B. Force meter
- C. Ruler
- **D.** Momentmeter