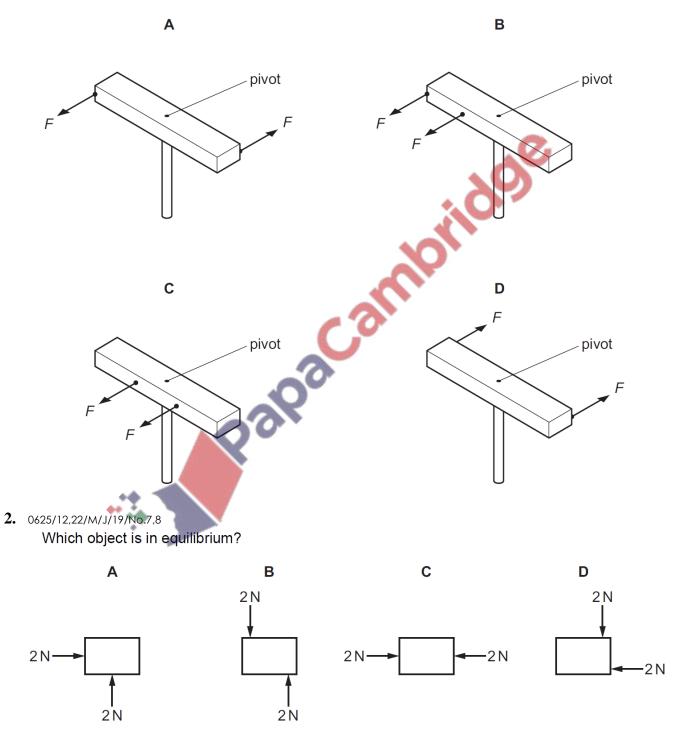
Turning Effect of Force – 2019 June

1. 0625/11\$12\$13/M/J/19/No.9

A wooden bar is pivoted at its centre so that it can rotate freely. Two equal forces *F* are applied to the bar.

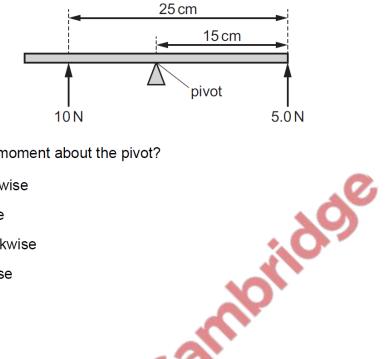
In which diagram is the turning effect greatest?



3. 0625/22/M/J/19/No.7

A beam is pivoted at its centre of mass.

It is acted upon by two forces, 10 N and 5.0 N, as shown.

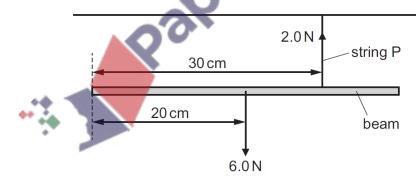


What is the resultant moment about the pivot?

- 25 N cm anticlockwise Α
- В 25 N cm clockwise
- С 175 N cm anticlockwise
- D 175 N cm clockwise
- **4.** 0625/23/M/J/19/No.8

A beam of weight 6.0 N is suspended from two strings P and Q.

String P is 30 cm from the left-hand end of the beam, as shown. String Q is not shown.



The tension in string P is 2.0 N.

What is the tension in string Q and where is it attached so that the beam is in equilibrium?

- **A** 4.0 N at 10.0 cm from the left-hand end
- 4.0 N at 15.0 cm from the left-hand end В
- С 6.0 N at 10.0 cm from the left-hand end
- 8.0 N at 7.5 cm from the left-hand end D

5. 0625/12/F/M/19/No.9

Α

В

С

The diagram shows a wooden beam with two forces acting on it.

