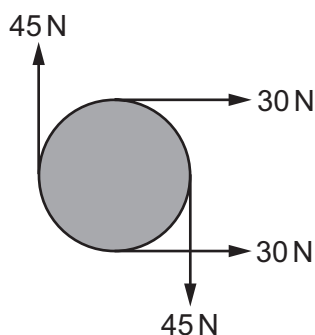


- 10 Steel pellets, each with a mass of 0.60 g, fall vertically onto a horizontal plate at a rate of 100 pellets per minute. They strike the plate with a velocity of 5.0 m s^{-1} and rebound with a velocity of 4.0 m s^{-1} .

What is the average force exerted on the plate by the pellets?

- A** 0.0010 N **B** 0.0054 N **C** 0.0090 N **D** 0.54 N

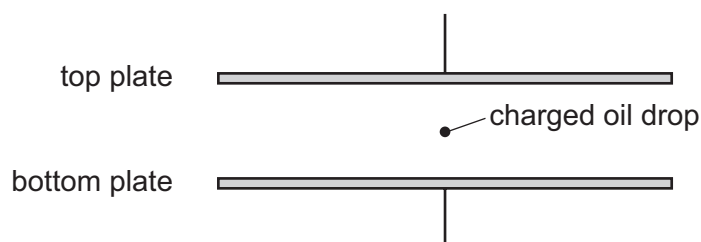
- 11 The diagram shows four forces applied to a circular object.



Which row describes the resultant force and resultant torque on the object?

	resultant force	resultant torque
A	non-zero	non-zero
B	non-zero	zero
C	zero	non-zero
D	zero	zero

- 12 A charged oil drop is held stationary between two charged parallel plates.



Which forces act on the oil drop?

- A** both electric and gravitational
B electric only
C gravitational only
D neither electric nor gravitational