8 The diagram shows a bottle supported by a finger.

force from finger = 2.1 N

3.2 cm

28 cm

• Z

floor

weight of bottle

not to scale
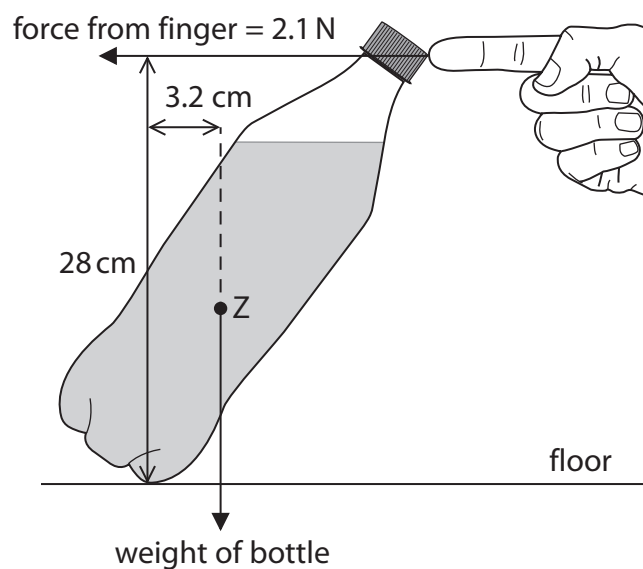
(a) State the name of point Z.

(1)

....

(b) (i) State the formula linking moment, force and perpendicular distance from the pivot.

(1)

(ii) The bottle does not move.

Calculate the weight of the bottle.

(4)

weight of bottle = ... N

(Total for Question 8 = 6 marks)