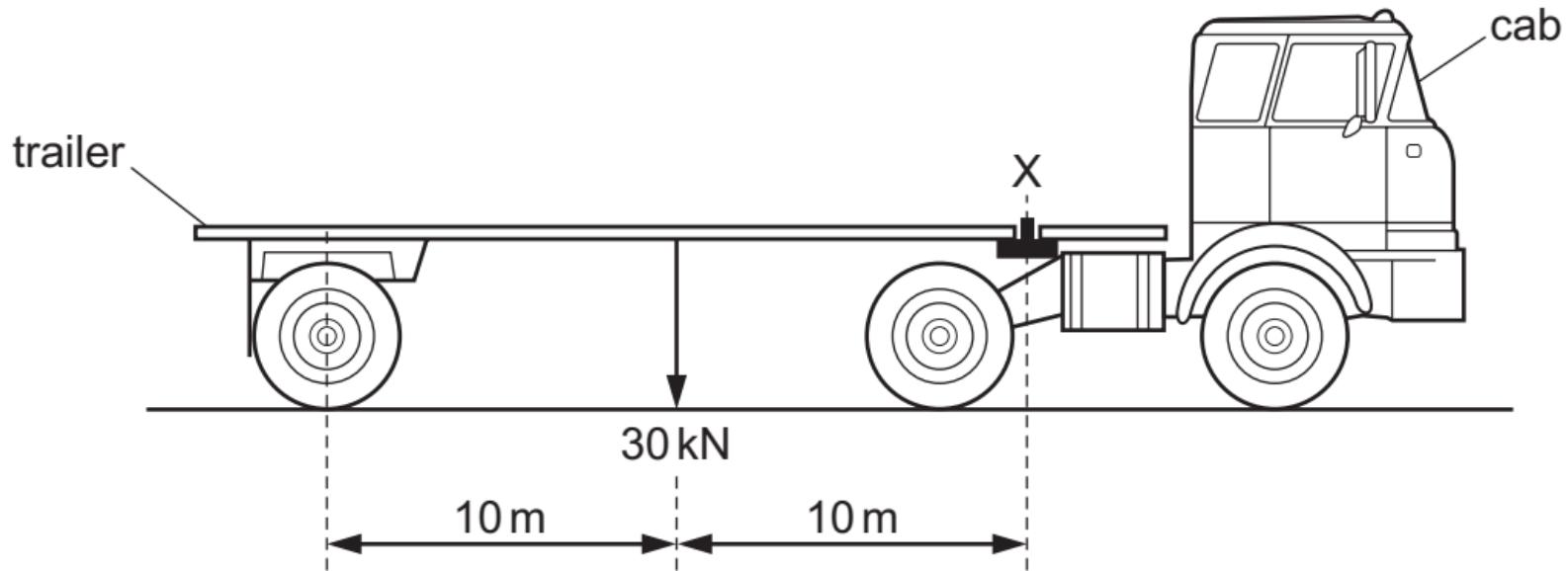


**14** A trailer of weight 30 kN is attached to a cab at X, as shown in the diagram.



What is the upward force exerted at X by the cab on the trailer?

**A** 3 kN

**B** 15 kN

**C** 30 kN

**D** 60 kN

**15** The diameter of a solid metal sphere is measured using a micrometer screw gauge. The diagram