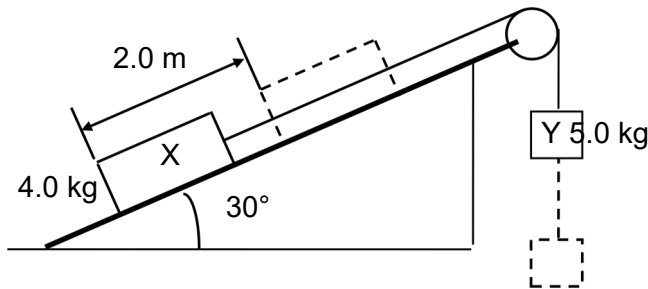


- 9 The diagram shows two bodies X and Y connected by a light cord passing over a light, free-running pulley. X starts from rest and moves on a slope inclined at 30° to the horizontal. X has a mass of 4.0 kg , and Y has a mass of 5.0 kg . Friction between X and the slope is 5.0 N .



Which of the following is the total kinetic energy of the system when X has travelled 2.0 m along the plane?

- A** 9.6 J **B** 30 J **C** 49 J **D** 69 J