

Unit 5: Test Review

Directions: Answer the questions below. Remember to show all your work and include units!

4. A 20kg block is suspended in a horizontal cable, a steel pulley is the block is suspended horizontally in a pulley on the edge of the table. A 10kg mass hangs at the end of the cord.

a. Draw the FBD for both objects together.



b. Calculate the acceleration of the block and mass. (2.24 m/s²)

c. Calculate the tension in the cord. (112.8 N)

5. A 20kg mass is allowed to accelerate down a 30-degree 10' ramp.

a. Draw a free diagram for the block.



b. Determine the acceleration of the block on the 30-degree 10' ramp.

Modeling Workshop Project Unit Vii Test Answers

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