

7. Apply: How do the force factors compare to the products of the masses?

they are the product of the masses

8. Apply: What would you expect the force to be if the mass of object A was 50.0×10^3 kg and the mass of object B was 40.0×10^3 kg?

0.80N

Check your answer with the Gizmo.

9. Draw conclusions: How do the masses of objects affect the strength of gravitational force?

the bigger the mass is the bigger the gravitational force

10. Summarize: Fill in the blank. The gravitational force between two objects is proportional to the multiplied product of the masses of the objects.

11. Apply: Suppose an elephant has a mass of 1,800 kg and a person has a mass of 75 kg. If the strength of gravitational force on the person was 735 N, what would be the gravitational force on the elephant? (Assume both the person and elephant are on Earth's surface.)

17,640N

• Show your work:

$$75\text{kg}/735\text{N} = 1800\text{kg}/x\text{N}$$

$$x = (1800\text{kg})(735\text{N}) / 75\text{kg}$$

$$x = 17,640 \text{ N}$$

Gravitational Force Worksheet Answers

Gurukul

A decorative red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the Gurukul text.

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