

QUESTION

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Answer the following questions by supplying answers using the principle of the work theorem.

1. A 1000 N force is applied to a 10 kg mass.

What is the acceleration? 10 m/s²

2. A 1000 N force is applied to a 10 kg mass.

What is the work done if the mass moves 10 m? 10,000 J

3. A 1000 N force is applied to a 10 kg mass.

What is the kinetic energy of the mass? 10,000 J

4. A 1000 N force is applied to a 10 kg mass.

What is the potential energy of the mass? 10,000 J

5. A 1000 N force is applied to a 10 kg mass.

What is the total energy of the mass? 20,000 J

6. A 1000 N force is applied to a 10 kg mass.

What is the work done if the mass moves 10 m? 10,000 J

7. A 1000 N force is applied to a 10 kg mass.

What is the kinetic energy of the mass? 10,000 J

8. A 1000 N force is applied to a 10 kg mass.

What is the potential energy of the mass? 10,000 J