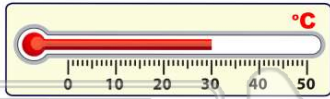




Name _____ Class _____ Date _____

1 What is the **total amount of energy** needed to **change the temperature** of 0.20 kilogram of lead from 20°C to 30°C?

- A 0.26 kJ
- B 0.65 kJ
- C 0.84 kJ
- D 1.3 kJ



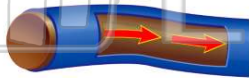
2 The total effect of all the processes that occur in the universe is an **increase** in

- A entropy
- B temperature
- C order
- D energy



3 The **conductivity** of a material is equivalent to

- A its resistivity
- B the square of its resistivity
- C the reciprocal of its resistivity
- D the square of the reciprocal of



4 In a nuclear reactor, which substance can be used as **both the moderator** and the **coolant**?

- A cadmium
- B boron
- C water



PREVIEW

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7
V
a
A
B a strong force that acts over a long range
C a weak force that acts over a short range
D a weak force that acts over a long range

- C J/s
- D kg•m/s



9 The diagram below shows a worker using a rope to pull a cart.

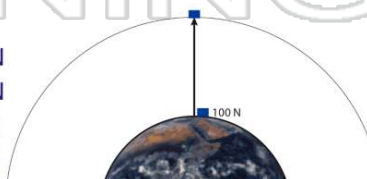
The worker's **pull on the handle** of the cart can best be described as a **force** having

- A magnitude, only
- B direction, only
- C both magnitude and direction
- D neither magnitude nor direction



10 An object weighs **100 newtons** on Earth's surface. When it is moved to a point **one Earth radius above** Earth's surface, it will weigh

- A 25.0 N
- B 50.0 N
- C 100 N
- D 400 N

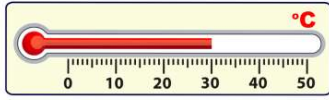




ANSWER KEY

What is the **total amount of energy** needed to **change the temperature** of 0.20 kilogram of lead from 20°C to 30°C?

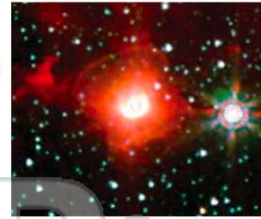
- A 0.26 kJ
- B 0.65 kJ
- C 0.84 kJ
- D 1.3 kJ



(a)

The total effect of all the processes that occur in the universe is an **increase** in

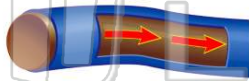
- A entropy
- B temperature
- C order
- D energy



(a)

The **conductivity** of a material is equivalent to

- A its resistivity
- B the square of its resistivity
- C the reciprocal of its resistivity
- D the square of the reciprocal of its resistivity



(C)

In a nuclear reactor, which substance can be used as **both the moderator** and the **coolant**?

- A cadmium
- B boron
- C water
- D uranium



(C)



PREVIEW

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- C a weak force that acts over a short range
- D a weak force that acts over a long range

The diagram below shows a worker using a rope to pull a cart.

The worker's **pull on the handle** of the cart can best be described as a **force** having

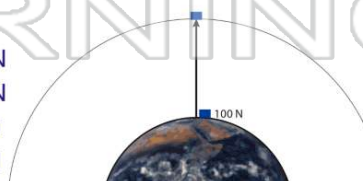
- A magnitude, only
- B direction, only
- C both magnitude and direction
- D neither magnitude nor direction



(C)

An object weighs **100 newtons** on Earth's surface. When it is moved to a point **one Earth radius above Earth's surface**, it will weigh

- A 25.0 N
- B 50.0 N
- C 100 N
- D 400 N



(a)