



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 The **maximum time** allowed for the completion of a **3-hour** examination is approximately

- A  $10^2$  s
- B  $10^3$  s
- C  $10^4$  s
- D  $10^5$  s



2 Which is a **derived unit**?

- A meter
- B second
- C kilogram
- D newton



3 A mass of **one kilogram of nickels** has a monetary value in **United States dollars** of approximately

- A \$1.00
- B \$0.10
- C \$10.00



4 What is the **total displacement** of a student who walks **3 blocks east, 2 blocks north, 1 block west, and then 2 blocks south**?

- A 0
- B 2 blocks east
- C 2 blocks west



## PREVIEW

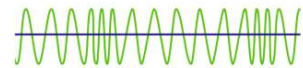
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7  
C  $5.0 \times 10^0$  kg  
D  $5.0 \times 10^1$  kg



spaceship?

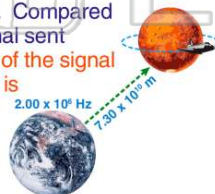
- A  $4.11 \times 10^{-3}$  s
- B  $2.43 \times 10^2$  s
- C  $2.19 \times 10^8$  s
- D  $1.46 \times 10^{17}$  s



9 A  $2.00 \times 10^6$ -hertz radio signal is sent a distance of  $7.30 \times 10^{10}$  meters from Earth to a spaceship orbiting Mars.

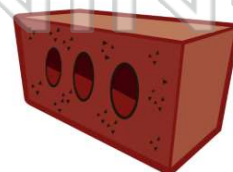
The spaceship is **moving away** from Earth when the radio signal is received. Compared to the frequency of the signal sent from Earth, the **frequency of the signal received by the spaceship is**

- A lower
- B higher
- C the same



10 How far will a brick starting from rest fall freely in **3.0 seconds**?

- A 15 m
- B 29 m
- C 44 m
- D 88 m





## ANSWER KEY

The **maximum time** allowed for the completion of a **3-hour** examination is approximately

- A  $10^2$  s
- B  $10^3$  s
- C  $10^4$  s
- D  $10^5$  s



(C)

Which is a **derived unit**?

- A meter
- B second
- C kilogram
- D newton



(d)

A mass of **one kilogram of nickels** has a monetary value in **United States dollars** of approximately

- A \$1.00
- B \$0.10
- C \$10.00
- D \$1000.00



(C)

What is the **total displacement** of a student who walks **3 blocks east**, **2 blocks north**, **1 block west**, and then **2 blocks south**?

- A 0
- B 2 blocks east
- C 2 blocks west
- D 8 blocks



(b)



## PREVIEW

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$5.0 \times 10^{-3}$  kg

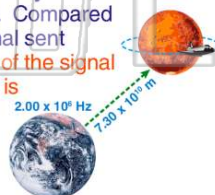
- A  $4.11 \times 10^{-3}$  s
- B  $2.43 \times 10^2$  s
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A  $2.00 \times 10^6$ -hertz radio signal is sent a distance of  $7.30 \times 10^{10}$  meters from Earth to a spaceship orbiting Mars.

The spaceship is **moving away** from Earth when the radio signal is received. Compared to the frequency of the signal sent from Earth, the **frequency of the signal received by the spaceship** is

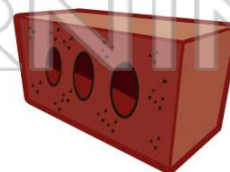
- A lower
- B higher
- C the same



(a)

How far will a brick starting from rest fall **freely** in **3.0 seconds**?

- A 15 m
- B 29 m
- C 44 m
- D 88 m



(c)