



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

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**?

**PREVIEW**

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5

6

7

A  $5.0 \times 10^{-3}$  kg  
 B  $5.0 \times 10^{-1}$  kg  
 C  $5.0 \times 10^0$  kg  
 D  $5.0 \times 10^1$  kg



a spaceship orbiting Mars.  
 Approximately how much **time** does it take the radio signal to travel from Earth to the spaceship?

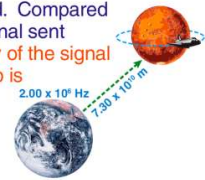
- A  $4.11 \times 10^{-3}$  s
- B  $2.43 \times 10^2$  s
- C  $2.19 \times 10^8$  s
- D  $1.46 \times 10^1$  s



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.

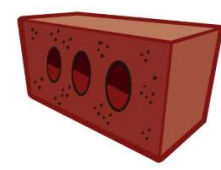
The spaceship is **moving away** from Earth when the radio signal is received. Compared to the frequency of the signal sent from Earth, the **frequency of the signal received by the spaceship is**

- 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






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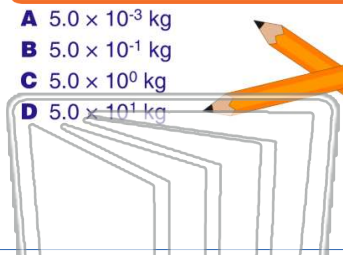
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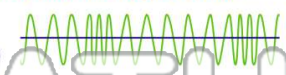
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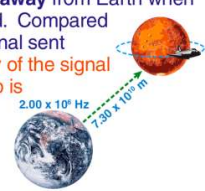
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