

Download File PDF Reteaching Activity Cold War Superpowers Face Off Answers

#Jenny



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#Rio



Cool! I'am really happy

#Markus Jensen



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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

Station 2
Part 2: Conversion Problems

1. Torrie went ice skating. While skating, she went from a standstill to a velocity of 10.5 m/s in 3 minutes. What was Torrie's acceleration?

a. What variable do you need to switch the units on? time (s)
b. The units need to be switched from minutes to seconds.
c. Solve the problem.

Type: Speed, Velocity, Acceleration
Variables & Values:
 $a = ?$
 $v_f = 10.5 \text{ m/s}$
 $v_i = 0 \text{ m/s}$
 $\Delta t = 3 \text{ min} = 180 \text{ s}$

Work:
 $3 \text{ min} \times \left(\frac{60 \text{ s}}{1 \text{ min}} \right) = 180 \text{ s}$
 $a = \frac{10.5 \text{ m/s} - 0 \text{ m/s}}{180 \text{ s}} = 0.0583 \text{ m/s}^2$
Answer: $a = 0.0583 \text{ m/s}^2$

2. It took Malon 31.4 seconds to run 0.125 miles. How fast did she run in meters per second?

a. What variable do you need to switch the units on? distance (m)
b. The units need to be switched from miles to meters.
c. Solve the problem.

Type: Speed, Velocity, Acceleration
Variables & Values:
 $s = ? \text{ m/s}$
 $d = 0.125 \text{ miles}$
 $\Delta t = 31.4 \text{ s}$

Work:
 $0.125 \text{ miles} \times \left(\frac{1609 \text{ m}}{1 \text{ mile}} \right) = 201.125 \text{ m}$
 $s = \frac{201.125 \text{ m}}{31.4 \text{ s}} = 6.4 \text{ m/s}$
Answer: $s = 6.4 \text{ m/s}$

3. A swimmer can swim at a speed of 2.4 m/s for 4 minutes. What distance will she cover in that time?

a. What variable do you need to switch the units on? time (s)
b. The units need to be switched from minutes to seconds.
c. Solve the problem.

Type: Speed, Velocity, Acceleration
Variables & Values:
 $s = 2.4 \text{ m/s}$
 $d = ?$
 $\Delta t = 4 \text{ min} = 240 \text{ s}$

Work:
 $4 \text{ min} \times \left(\frac{60 \text{ s}}{1 \text{ min}} \right) = 240 \text{ s}$
 $(240) 2.4 \text{ m/s} = \frac{d}{240 \text{ s}}$
 $5760 \text{ m} = d$
Answer: $d = 5760 \text{ m}$

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