Review Activity 1

Started: 2 Nov at 7:56

Quiz instructions



This exercise will help you check your knowledge. Please take it as many times as you need to master the concepts. It will not count toward your course grade, but will help you master the material.

Question 1	1 pts
A group of students wish to test the brightness of a light bulb, so they experiment. They take a light bulb and change the voltage supplied to What is the independent variable?	perform an it.
⊖ voltaœ	
<u> </u>	
 number of trials 	

Question 2	1 pts
Kelly walked 40 meters north and then wa displacement?	ilked 30 meters south. What was Kelly's
○ 40 m	
○ 70 m	

○ 0 m			
⊖ 30 m			
⊖ 10 m			
⊖ 20 m			

Question 3	1 pts
Jen walked 30 meters north and then walked 20 meters south. What was Jen's distance?	3
○ 30 m	
○ 70 m	
○ 50 m	
○ 90 m	
○ 10 m	

Question 4	1 pts
Ernest traveled 5 miles in 5 hours. What was Ernest's speed?	
○ 3 mph	
○ 5 mph	
○ 4 mph	
○ 1 mph	
○ 2 mph	



Question 6	1 pts
Carol is driving along the street at 45 m/s. She slams on the brakes and come stop in 5 seconds. What is her acceleration?	s to a
\bigcirc -3 m/s ²	
⊖ -7 m/s ²	
\bigcirc -5 m/s ²	
⊖ -9 m/s ²	

Question 7	1 pts
How much does a 5 kg bowling ball weight?	
○ 50 N	
○ 0.5 N	
○ 5 N	
○ 500 N	

Question 8	1 pts
Which of the following is an example of a long-range force?	
⊖ weight	
⊖ normal	
⊖ tension	

Question 9	1 pts
Find the <i>x</i> and <i>y</i> components of a 30 N force at a 45-degree angle.	
\bigcirc F _x = 22.5, F _y = 22.5	
\bigcirc F _x = 22.5, F _y = 39.0	
\bigcirc F _x = 21.2, F _y = 21.2	

https://byuhss.instructure.com/courses/105/quizzes/5672/take

Question 10	1 pts
A 20 kg box sits on the floor. You push it with a 50 N force, and it accelerates at m/s². How much friction must be present?	: 1
○ 15 N	
○ 30 N	
○ -30 N	
○ 10 N	

Question 11	1 pts
You exert a 40 N force on a 5 kg box. If there is a friction force of 30 N, what is acceleration of the box?	the
$\bigcirc 2 \text{ m/s}^2$	
$\bigcirc 5 \text{ m/s}^2$	
○ 4 m/s ²	
\bigcirc 3 m/s ²	

Question 12	1 pts
What is the energy transformation taking place when paper burn?	
\bigcirc chemical to kinetic	
◯ nuclear to heat	
\bigcirc chemical to light and heat	

 \bigcirc electrical to heat

Question 13	1 pts
A 70 kg student has 3500 J of gravitational potential energy. How high up is th student?	e
○ 3430	
○ 3570 m	
○ 5 m	
○ 50 m	
○ 70 m	

Question 14	1 pts
A 5 kg block is allowed to slide down a hill that is 5 m high. It reaches the bot a speed of 10 m/s. How much energy was dissipated by friction?	tom with
○ 225 J	
○ 25 J	
O 0 J	
○ 250 J	
○ 2500 J	

Question 15	1 pts

Find the volume of a cylinder that is 12 cm tall and has a radius of 3 cm.		
\bigcirc 4 cm ³		
⊖ 339 cm ³		
○ 28 cm ³		
○ 36 cm ³		
○ 113 cm ³		

Question 16	1 pts
When a liquid becomes a gas slowly, this process is called	
⊖ vaporization	
⊖ melting	
⊖ sublimation	
⊖ evaporation	
⊖ condensation	

Question 17	1 pts
How much heat is transferred when 4 grams of water at 0 degrees Celsius bec ice?	omes
○ 80 cal	

\bigcirc 4 cal			
⊖ 720 cal			
⊖ 320 cal			
⊖ 800 cal			

Question 18	1 pts
The temperature of 100 g of water is 70 degrees Celsius. How much heat mus added to raise the temperature to 80 degrees Celsius?	it be
⊖ 500 cal	
○ 10000 cal	
⊖ 1000 cal	
⊖ 7000 cal	
○ 80 cal	

Question 19	1 pts
The temperature of 24 liters of a certain gas is 300 K. If we change the temper to 500 K, what is the new volume of the gas?	ature
○ 40 liters	
○ 14.4 liters	
○ 38 liters	
○ 124 liters	
○ 20 liters	

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No new data to save. Last checked at 7:57