

Worksheet: Day 1

Test in DAY 1 - IN CLASS

6

FEB

A+

GRADE

1

✓

Please note that you must finish this assignment before you leave today in order to receive full credit for attendance.

Please use the following equation sheet for reference:

Test1Equationsheet.pdf (https://assethub.fso.fullsail.edu/assethub/Test1Equationsheet_426ce67a-3564-4078-b8d4-ed93a5a765d5.pdf)

Select "Yes." below.

Opts

2

✓

Which of the following is **not** an example of a scalar quantity?

3

✓

A car is stopped at a red light. When the light turns green, the car accelerates at a rate of 3.5 m/s^2

4

✓

A car travels down the road with a net force of 0 N. This is an example of:

5

✓

An object is accelerated at 2 m/s^2 creating a force of 190 N. What is the mass of the object

6

✓

What distance does a man travel who runs at a velocity of 6.5 m/s for a time of 72 s?

7



What is the acceleration of a tractor moving at a constant velocity of 12 m/s for a time of 10 s. *All ans...*

8



What is the weight of a box on Earth with a mass of 32 kg?

9



Which mass has the most **inertia**: a 42-kg mass, a 34-kg mass, a 72-kg mass, or a 93-kg mass?

10



Which of the following is **not** an example of a vector quantity?

11



When does free fall occur?

12



A man drops a penny off of a skyscraper. Assuming the penny is in free fall, what distance will it fall i...

13



What is the force of an object with a mass of 19 kg that is accelerated at 22.3 m/s^2

14



What is the relationship between time and acceleration?

15



What happens to the amount of distance you travel if you go twice as fast in the same amount of time?

16



Two people play tug of war. One man pulls to the left with a force of 340 N and the other man pulls ...

17



What is the acceleration of a man who slows from an initial velocity of 9 m/s to rest in a time of 3.6 s?...

18



What is the mass of an object that has an acceleration of 4.7 m/s^2 and a force of 63.92 N being appli...

19 ✓ What is the acceleration of a man who goes from an initial velocity of 6 m/s to a final velocity of 23 m/s in 10 s?

20 ✓ A rock falls from a cliff. Assuming that the rock is in free fall, what distance does it fall if it hits the ground with a velocity of 40 m/s?

21 ✓ What is the mass of an object that has a weight of 462.56 N?

22 ✓ A woman is rearranging her office. If she pushes her desk, which has a mass of 42 kg, using a force of 180 N, how fast will it accelerate?

23 ✓ What is the velocity of a man who runs a distance of 223.2 m in a time of 31 s?

24 ✓ The downward force of an object is called:

25 ✓ When does any object reach terminal velocity?

26 ✓ Two kids are moving a heavy box. One kid pushes with a force of 27 N and the other kid helps with a force of 15 N. How much force is applied to the box?

You submitted this activity 7 days ago.

Comments

Donald Johnson This test has been automatically graded.