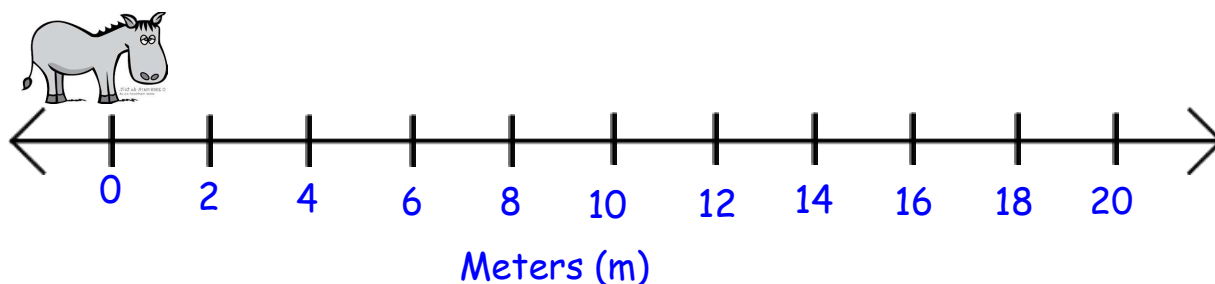


DO NOW

1) Pass your homework forward

2) Answer the following question:

Keith's donkey walks at 2 m/s. What is his position after 7 seconds?



Homework Answers

2. Darnley drives from Waterboro of Felixburg, a distance of 325 km, in 5 hrs. What is his average speed in m/s?

18.1 m/s

2a. Acceleration (2).notebook

4. A spaceship travels 10 m, 100 m, 500 m, and 4,200 m respectively during the first four seconds after launch. What is the average speed at the end of each second?

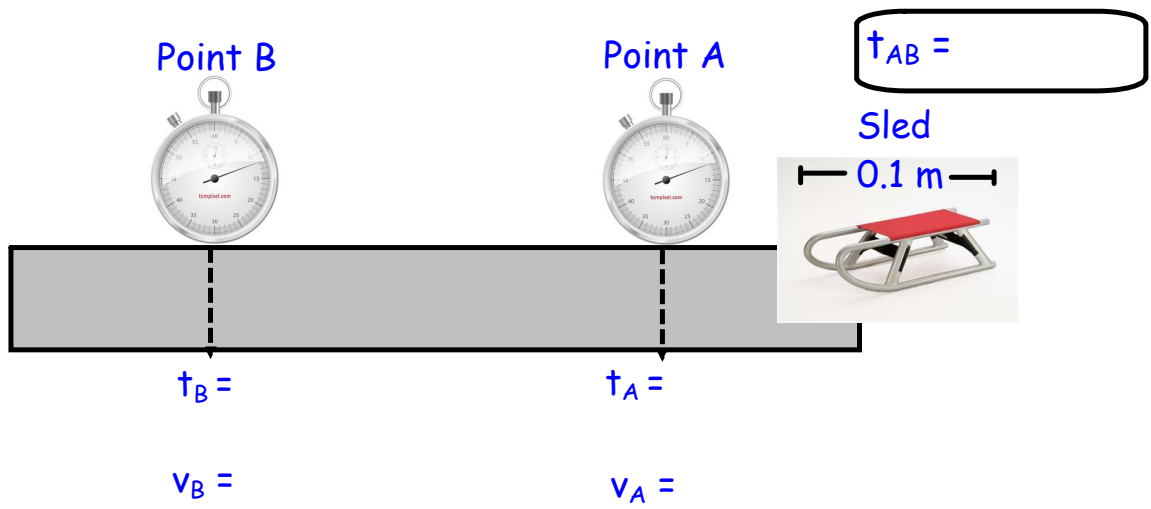


2a. Acceleration (2).notebook

5. An electron travels 4.82 m in 0.0036 s. What is its average speed?

1,338.9 m/s

2a. Acceleration (2).notebook



Just like **velocity** describes how **What?** changes over time, acceleration describes how **What?** changes over time.



Equation #3: Acceleration

$$a = \frac{\Delta v}{t}$$

Δv = change in velocity **Units?**

t = time **Units?**

a = acceleration **Units?**

What is our sled's acceleration?...

Equation #4: Acceleration

$$a = \frac{v_f - v_i}{t}$$

Equation #5: Acceleration

$$v_f = v_i + at$$

v_f = Final Velocity

v_i = Initial Velocity

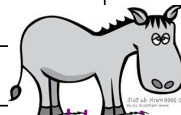
t = Time

a = Acceleration

2a. Acceleration (2).notebook

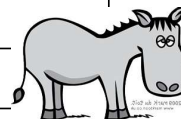
Keith's donkey accelerates at 3 m/s^2 . How fast is he walking after 4 seconds?

$t = 0 \text{ s}$	$v = 0 \text{ m/s}$
$t = 1 \text{ s}$	$v = 3 \text{ m/s}$
$t = 2 \text{ s}$	$v =$
$t = 3 \text{ s}$	$v =$
$t = 4 \text{ s}$	$v =$

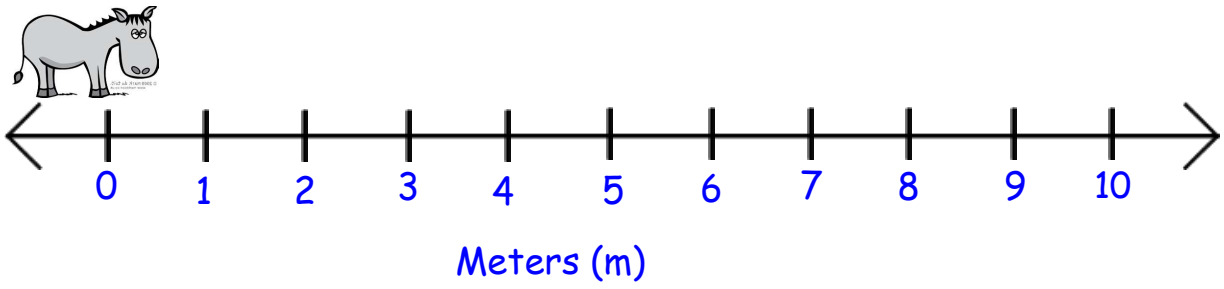


Keith's donkey is tired after reaching 15 m/s and begins to decelerate at -5 m/s^2 .
When will he come to a stop?

$t = 0 \text{ s}$	$v = 15 \text{ m/s}$
$t = 1 \text{ s}$	$v =$
$t = 2 \text{ s}$	$v =$
$t = 3 \text{ s}$	$v =$
$t = 4 \text{ s}$	$v =$



2a. Acceleration (2).notebook



Misconceptions

