

Use your speed equation to answer the question. Show all steps. Feel free to use a calculator.

Bonnie rode her skateboard 195meters (m) in 30 seconds (s). Raul rode his unicycle 300m in 50s. Who traveled faster? How much faster?

On GOOS paper



- 1) Write equation
- 2) Substitute with units
- 3) Solve
- 4) Box answer with units



Learning Target: I can accurately gather data to answer the investigation question.

12/01

Speed

#4

Bonnie rode her skateboard 195meters (m) in 30 seconds (s). Raul rode his unicycle 300m in 50s. Who traveled faster? How much faster?

$$\text{Bonnie } S = \frac{d}{\Delta t}$$

$$S = \frac{195m}{30s}$$

$$S = 6.5m/s$$



$$\text{Raul } S = \frac{d}{\Delta t}$$

$$S = \frac{300m}{50s}$$

$$S = 6m/s$$



Bonnie traveled 0.5m/s faster.

Learning Target: *I can accurately gather data to answer the investigation question.*

Data Table

# of Books	2 Books	3 Books	4 Books
Trial 1 (s)			
Trial 2(s)			
Trial 3 (s)			
Average (s)			

$$av S = \frac{d}{t}$$

$$av S = \frac{d}{t}$$

$$av S = \frac{d}{t}$$

Round to hundredths

Learning Target: *I can accurately gather data to answer the investigation question.*

Speeds

1st ramp
height

2nd ramp
height

3rd Ramp
Height

$$s = \text{--- cm/s}$$

Work Quietly!!!!!!!!!!!!

- 1) Write equation
- 2) Substitute with units
- 3) Solve
- 4) Box answer with units

Round to
hundredths of
a second
(2 decimal
places)

Learning Target: I can accurately gather data to answer the investigation question.

Speeds

1st ramp
height

$$s = \frac{d}{avt}$$

2nd ramp
height

$$s = \frac{d}{avt}$$

3rd Ramp
Height

$$s = \frac{d}{avt}$$

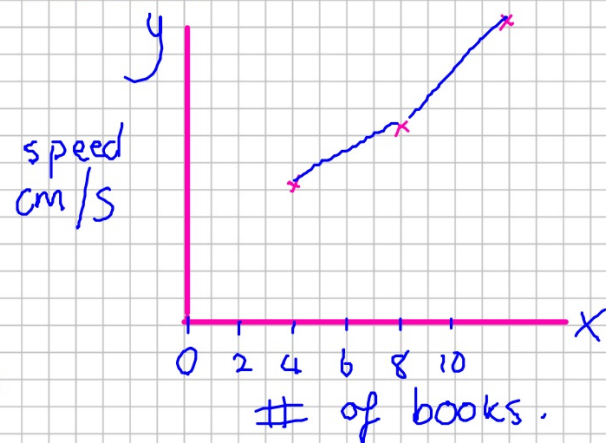
- 1) Write equation
- 2) Substitute with units
- 3) Solve
- 4) Box answer with units

Learning Target: *I can accurately gather data to answer the investigation question.*

Line Graph on GRAPH paper

Graphing Reminders

1. Labeled MV on the horizontal x-axis with units
2. Labeled RV on the vertical y-axis with units
3. Intervals are equal
4. Graph has a title
5. Pencil and ruler are used
6. Accurately graph the data points



Learning Target: *I can accurately gather data to answer the investigation question.*

Conclusion/Results

A Answer the investigation question and say if your hypothesis was correct/incorrect.

P Provide supporting high data

P provide supporting low data

S say how this data supports your conclusion. (the car went _____cm/s faster when the ramp was highest.)

Learning Target: *I can accurately gather data to answer the investigation question.*

12/02

Speed

#4

Conclusion/Results

A Answer the investigation question. **P** provide supporting low data
P Provide supporting high data **S** say how this data supports your
conclusion. (the car went ____ faster
when the ramp was highest.)

Discussion/Conclusion

1. Report any variables not controled and how they might have affected your results.
2. What would you do differently next time to make your investigation more valid.
3. What are the limitations of your investigation? (How might your conclusion be overgeneralized from limited data or bias?)

Today's Plan:

- Speed Calculations
- Results and Conclusion
- Distance and Time Equations

Learning Target I can reflect upon the results of my investigation. I can use equations to solve problems.

