

1. A snail speeds up from 0 cm/s to 7 cm/s in 6s.
What is the snail's average acceleration?

Knowns:

Unknowns:

Equation:

Plug:

Chug:

2. In a Card's publicity event, a baseball is dropped from a helicopter into Yadier Molina glove. If the ball falls for 5 s how far was the helicopter from the ground?

Knowns:

Unknowns:

Equation:

Plug:

Chug:

3. Boris bikes home from school. If his average speed is 5 m/s and it takes him 5minutes 25s to get home, how far from school is Boris' house?

Knowns:

Unknowns:

Equation:

Plug:

4. A good major league catcher can stop a fast ball moving at 41 m/s. How long does he have to react if the plate is 18.4 m from the pitcher's mound?

Knowns:

Unknowns:

Equation:

Plug:

Chug:

5. A car company claims that its car can accelerate from rest to a speed of 28 m/s in 20s. Find the average acceleration of the car.

6. Use the acceleration that you found in question 5 to calculate how far the car would go in 20s.

7. A model rocket accelerates vertically upward for 2 s. If its velocity is 8.32 m/s at this time, what was the rocket's acceleration?

8. It takes 6.12 s for my keys to fall from the top of Seattle's Space Needle to the ground. How tall is the Space Needle?