

Name:

Number:

Date:

Mixed Motion Practice

$$v = \frac{d}{t} \qquad a = \frac{(v_f - v_i)}{t}$$

1. Calculate the acceleration of a car that goes from rest to 50 m/s in 12 seconds.

Knowns/Unknowns	Plug & Chug	Answer w/ Units

2. Calculate the distance that Jose runs if he has a velocity of 8.3 m/s and runs for 45 seconds.

Knowns/Unknowns	Plug & Chug	Answer w/ Units

3. A ball is initially traveling at 15.2 m/s and then accelerates at 0.6 m/s² for 4.8 s. What is the ball's velocity now?

Knowns/Unknowns	Plug & Chug	Answer w/ Units

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4. How much time will it take a boat traveling at 2.7 m/s to travel 120 meters?

Knowns/Unknowns	Plug & Chug	Answer w/ Units

5. What is the final velocity of a roller coaster that starts at rest and accelerates at a rate of 5 m/s² for 0.8 s?

Knowns/Unknowns	Plug & Chug	Answer w/ Units

6. What is the velocity of an ATV that travels 13 m in 2 s?

Knowns/Unknowns	Plug & Chug	Answer w/ Units