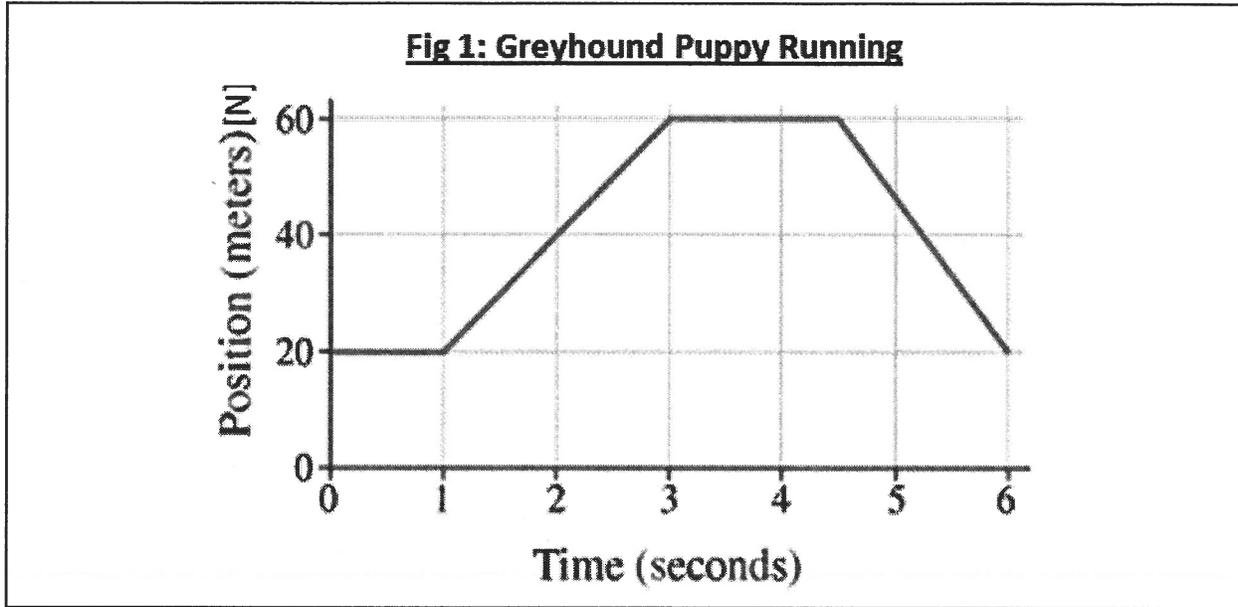


First Name: _____ Last Name: _____

L05 - EQ - Interpreting Graphs

Use the following information to answer Q1- Q3:



Q1: What is the magnitude of the velocity of the puppy at $t = 2.0$ seconds?

(Record your **three digit** answer in the Numerical Response boxes below)

2	0	.	0
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$$\text{Slope} = \frac{\text{rise}}{\text{run}} \quad \vec{v} = \frac{\Delta \vec{d}}{\Delta t} = \frac{40\text{m [W]}}{2\text{s}} = \underbrace{20\text{ m/s [W]}}_{\text{Magnitude}}$$

Q2: What is the displacement of the puppy between 1 and 3 seconds?

- a. 4m [N]
- b. 20 m [N]
- c. 40 m [N]
- d. 80 m [N]

Change in y-axis? 40m.

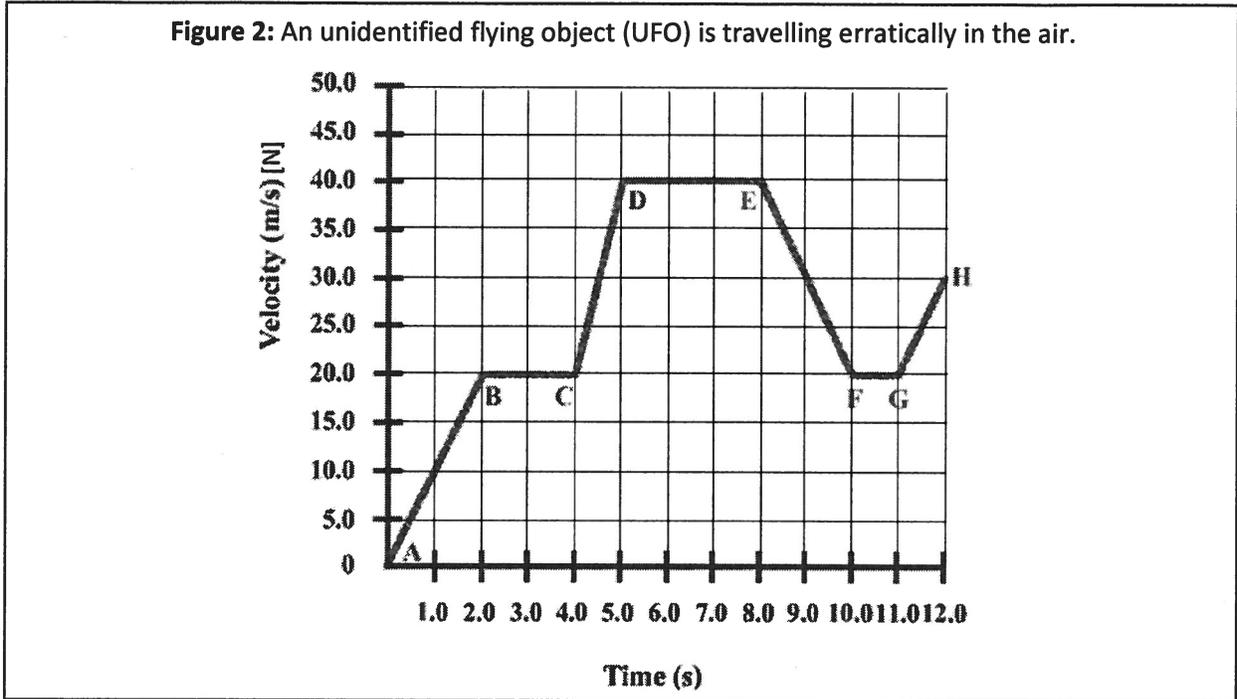
Q3: What is the magnitude of the acceleration of the puppy between 4.5 and 6 seconds?

(Record your **three digit** answer in the Numerical Response boxes below)

0	.	0	0
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Constant slope = constant velocity = No acceleration.

Use the following information to answer Q4– Q6:



Q4: What is the acceleration of the UFO between 4 and 5 seconds?

2	0	.	0
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$$\text{Slope} = \frac{\text{rise}}{\text{run}} \quad \vec{a} = \frac{\Delta \vec{v}}{\Delta t} = \frac{20 \text{ m/s} [\text{N}]}{1 \text{ s}} = 20 \text{ m/s}^2 [\text{N}]$$

Q5: (Short Answer) During what time periods does the UFO have uniform motion?

Constant velocity?

2-4 sec (BC)

5-8 sec (DE)

10-11 sec (FG)

Q6: (Short Answer) What is the displacement of the UFO between 0 and 2 seconds?

Area under graph

MARKING:

Beginning	0.0 – 2.5
Progressing	3.0 – 4.0
Competent	4.5 – 5.5
Exemplary	6.0

$$\text{Area of } \Delta = \frac{1}{2}bh$$

$$= \frac{1}{2}(2)(20)$$

$$\Delta \vec{d} = 20 \text{ m} [\text{N}]$$