$\qquad$ Date: $\qquad$ Class: $\qquad$

## Appendix A: Pre/Post Speed Quiz Answer Key

1. A submarine travels 600 meters in 2 hours, what is the speed of the submarine? Once speed is solved, convert the speed to cm per hour (circle your answer).

$$
\begin{aligned}
& \text { Speed }=\text { Distance } / \text { Time } \\
& \qquad v=\frac{x}{t}=\frac{600 \mathrm{~m}}{2 \mathrm{hr}}=300 \frac{\mathrm{~m}}{\mathrm{hr}} \\
& \left.300 \frac{\mathrm{~m}}{\mathrm{hr}} \times\left(\frac{100 \mathrm{~cm}}{\mathrm{~m}}\right)=30,000 \frac{\mathrm{~cm}}{\mathrm{hr}}\right)
\end{aligned}
$$

2. If Johnny Football runs 40 yards in 6.3 seconds, how fast is he moving? Round your answer to the nearest hundredth.

$$
v=\frac{x}{t}=\frac{40 y d}{6.3 s}=6.35 \frac{y d}{s}
$$

3. If I live 3 miles from school and leave my house at 8:20am, how fast will I need to drive to be there by 8:30am? (Your answer can be in miles per minute or miles per hour)

$$
\begin{gathered}
v=\frac{x}{t}=\frac{3 \mathrm{mi}}{10 \mathrm{~min}}=0.3 \frac{\mathrm{mi}}{\mathrm{~min}} \\
0.3 \frac{\mathrm{mi}}{\mathrm{~min}} \times\left(\frac{60 \mathrm{~min}}{\mathrm{hr}}\right)=18 \mathrm{mph}
\end{gathered}
$$

4. If Justin Bieber is driving his car 55 miles per hour for 5 hours, how far will he have traveled?

$$
x=v \times t=(55 \mathrm{mph}) \times(5 \mathrm{hr})=275 \text { miles }
$$

5. SpongeBob swims 10 miles per hour and gets to a town 75 miles away. How long did it take him?

$$
t=\frac{x}{v}=\frac{75 \mathrm{mi}}{10 \mathrm{mph}}=7.5 \mathrm{hr}
$$

$\qquad$ Date: $\qquad$ Class: $\qquad$

On the graph below, graph the following points and label them. A $(1,7) B(9,5) C(3,0)$

6. Which vehicle is moving faster, A or B ?


