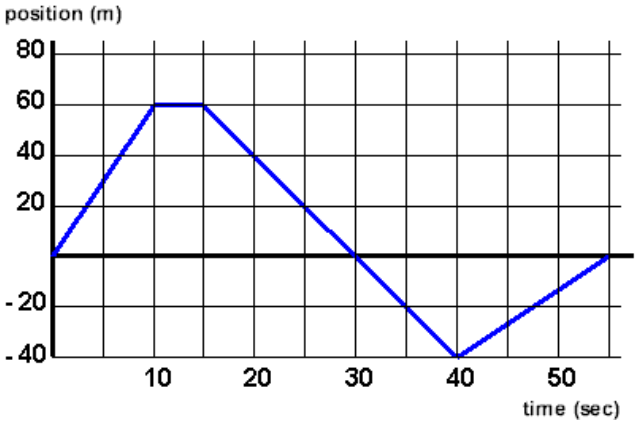
MOTION GRAPH PRACTICE

NAME:_____

1-5 refer to the graph on the right...



1) Describe the motion of the object from 0 to 10 s?

_____

2) What is the object doing from 10 to 15s?

_____

3) What is the object doing from 15 to 40s?

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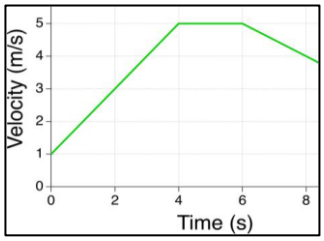
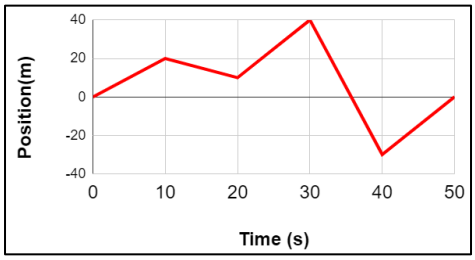
*4) Calculate the object's velocity from 0 to 10 secs?*_____

5) Is the object ever accelerating during any interval on the graph? Explain.

_____





6-8 refer to the two graphs above...

6) **True or False, if false explain why:** *The objects in both graphs are never at rest.*

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7) Circle the statement below that correctly describes the motion of the object depicted in graph B

The object speeds up from rest then moves at a constant velocity then slows down

The object was already moving then sped up, moved at a constant velocity then slows down

The object moves forward then stops then moves backwards

8) **True or false, if false explain why**. *The object in graph A moves backwards only once*

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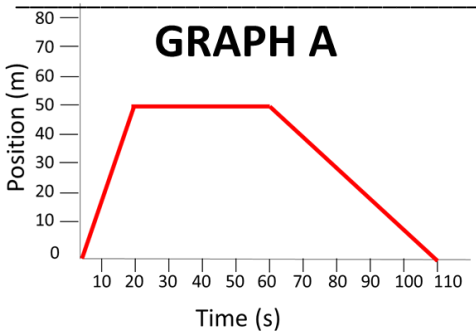

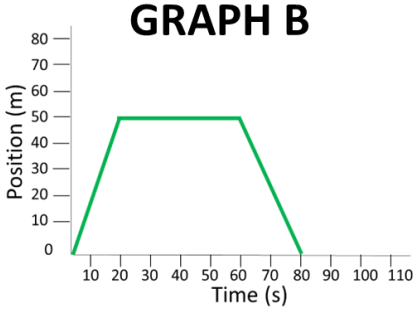

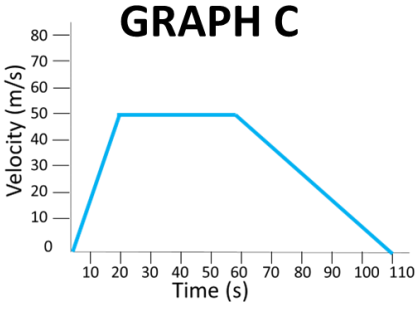

Mr. Mickens was chased by a dog as soon as he left home. He runs 50m to the street corner, but the dog caught him and he stood there to beat the dog for 40 secs, then he stumbled back home much slower than when he was being chased.

9. a) Which Motion graph represents this scenario?_____

b) Explain why the other graphs do NOT represent this scenario_____

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10. a) What was Mr. Mickens velocity during the walk back home in GRAPH A?

b) What was his velocity velocity during the walk back home in GRAPH B?