Name____ Core______________

Directions: What does each of the following units represent? Use D for distance, T for time, S for speed, A for acceleration and V for velocity.

______1) 15 mins	______4) 24 mph^2	______7) 2 m/s W	______10) 8 mph
______2) 10 mph^2	______5) 48 m/s	______8) 31 mph	______11) 12 feet
______3) 36 m/s	______6) 13 mph S	______9) 5 seconds	______12) 42 mph S

SHOW YOUR WORK!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

13) Madison was driving at 40 mph and went 80 miles. How long did it take Madison?

14) Austin drove to a friend's house that is 144 miles. If it took him 3 hours, how fast was Austin driving?

15) Michaela drove south for 4 hours and went 260 miles. What was Michaela's velocity?

16) Jessica drove for 6 hours at 51 mph. How far did Jessica drive?

17) A car travels between the 100 meter and 250 meter highway marker in 10 seconds. What is the average speed of the car during this interval?

18) Matthew was driving at 30 mph, how long did it take him to travel 90 miles?

19) Cole was driving at 52 miles per hour and drove for 6 hours. How far did Cole go?

20) Shelby is at rest and speeds up to 16 m/s in 4 seconds. What was Shelby's acceleration?

21) Craig was driving at 22 mph to a mall that was 66 miles away. How long did it take Craig?

22) Jesse was walking at 1 m/s and speeds up to 5 m/s in 2 seconds. What is Jesse's acceleration?

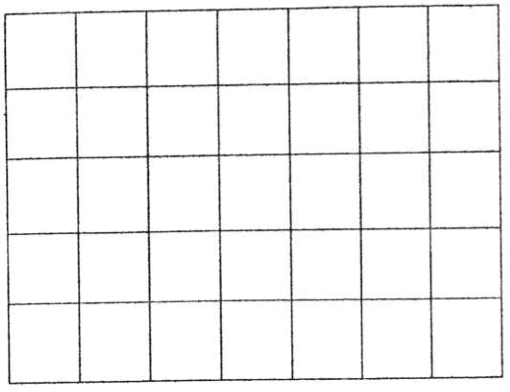
23) Jonathan was riding his bike at 6 miles per hour and went 24 miles. How long was Jonathan riding?

24) Caitlyn was traveling at 16 m/s and decreased her speed to 4 m/s in 3 seconds. What was Caitlyn's acceleration?

Fill out the chart below, and graph distance versus time.

Driver	Distance	Time
Bree	300 m	4
Lauren	400 m	6
Lilly	500 m	5
Emilie	400 m	2

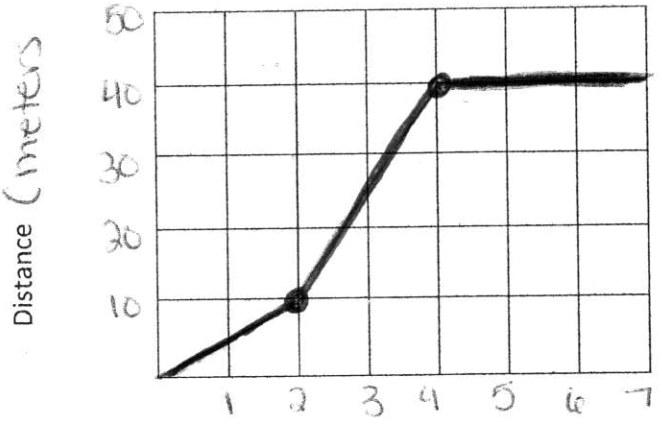
Distance



Time

25) Which student was traveling the fast? Which was traveling the slowest?

Use the graph below to answer the following questions



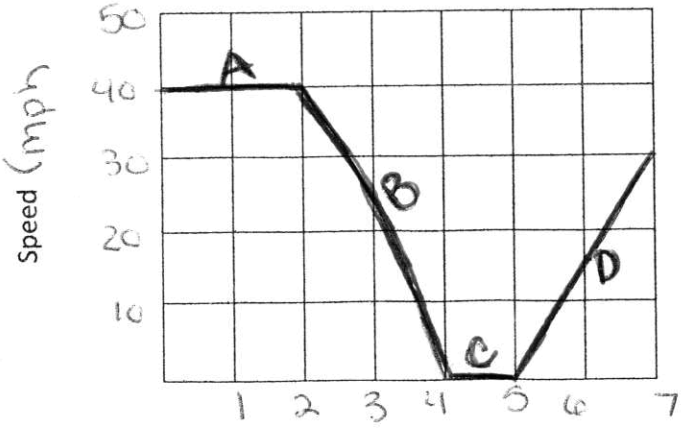
Time

26. How fast was the object moving between 0-2 seconds?

27) How fast was the object moving between 2 – 4 seconds?

28) During what time interval did the object stop moving?

Use the graph below to answer the following questions



Time (hours)

29) When is the car moving at a constant speed?

30) When does a negative acceleration occur?

31) When does a positive acceleration occur?

32) When is the car stopped?