Distance/Time graphs

Week 6

Lesson Time : 15- 20 Minutes
Course : Foundation or Higher
Grade : 4/5

| Back to Basics | Core | Let's Do It! |

GCSE Revision Video 26

- **Prior Checklist:** A pack of A5/A6 revision cards.

  A pen.

- **Our Video Structure:**

  Back to Basics: Quick re-cap.

  Core: *Create* your own revision cards with exam style questions.

  Let's Do It! : *Apply* your revision cards to another set

Instructions: **Print out** this worksheet and watch the revision video simultaneously.

Pause and Play the video unlimited times to review your work and write the answers in the blank spaces. Once you have written your answers, check these with the tutorial answers, as explained in the video.

Create your OWN revision cards when prompted on the worksheet(Back to Basic and Core sections).

Apply your OWN revision cards (Let's Do It! section).

Self Assess yourself (Out of 10) on your revision planner after you have completed the revision video

Maths Memory

Let's get started and create our Master revision card with this suggested template.

ATHS
emory **Maths Memory**

Learn:
- Calculate speed ☐
- Calculate distance ☐
- Calculate Time ☐

Step 3

Step 2

Step 1

10
7
4

Example(s):

Core- Create your revision cards with these exam style questions

ATHS emory

Core 1

Topic: Distance/Time Graphs

Question 1

Distance from home (Km)

20
15
10
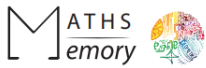5

12:00pm 1pm 2pm 3pm 4pm 5pm

Time of day (Hr)
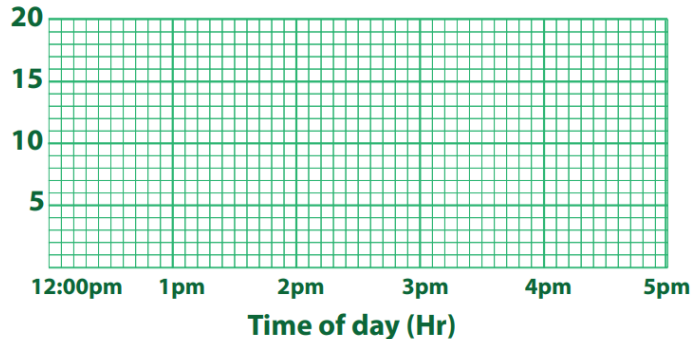
Show the following journey (for each stage) on the D/T graph above.
a) **Stage 1**: A pupil leaves her home (A)at 12pm and cycles to find her friends house (B). Distance travelled is 12 km and time taken is 1 hour. Complete Stage 1(Draw line AB)
b) **Stage 2**: She stays at her friends house for 2 hours. Complete stage 2.
c) **Stage 3**: She returns back home, taking her 90 minutes with traffic (Draw line BC).
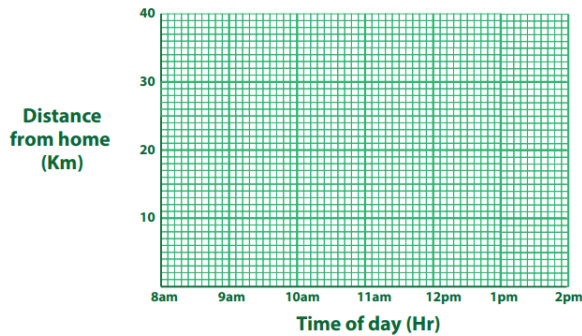
d) Calculate her speed back home (Line BC).

Grade
5 (4 Marks)

ATHS emory

Let's get our revision card and create Section A. Look at video for guidance.

My Tool Kit

Topic: Grade:

(A)

M ATHS emory

Challenge

Topic: Distance/Time Graphs

Question 2

Distance from home (Km) — vertical axis: 10, 20, 30, 40
Time of day (Hr) — horizontal axis: 8am, 9am, 10am, 11am, 12pm, 1pm, 2pm

Alga leaves her home (A) at 8am. She arrives at her office (B) at 8:30am, driving an average speed of 40 km/h. She stays at her office for 75 minutes. She then continues her journey to a client (C) who lives a further 10 km from her office (B). She arrives at the client (C) at 10 am.
a) Complete these three stages on the D/T graph
b) Calculate Alga's speed from the office to the client.

c) She stays with the client for 120 minutes before returning home for lunch. She then travels back to her home (A) at 45 km/h.
Show her return journey back on the D/T graph. What time did she arrive back home?
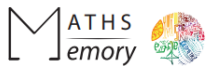
Grade

(5) (6 Marks)

Calculator

Let's get our revision card and create Section B. Look at video for guidance.

My Tool Kit

Topic: Grade:

(B)

M ATHS emory

Let's get our revision card and create Section C. Look at video for guidance

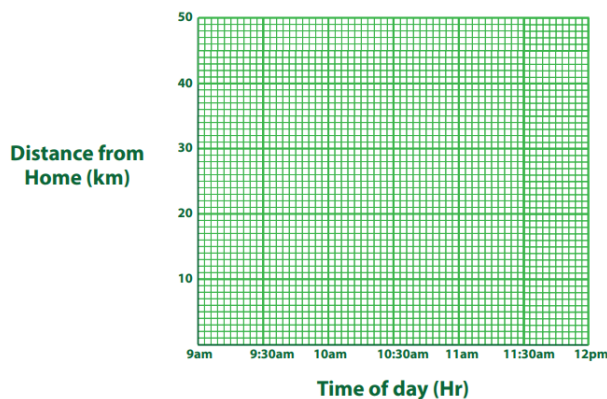| Maths Memory	**My Tool Kit**	
Topic:		Grade:
Ⓒ		

Let's Do It!- Apply your revision cards to another set of exam style questions

Maths Memory

Let's Do It!

Topic: Distance/Time Graphs

Question 1

Distance from Home (km)

50
40
30
20
10

9am 9:30am 10am 10:30am 11am 11:30am 12pm

Time of day (Hr)

Tony leaves his home (A)at 9am. He travels to a friends house (B) and arrives there at 9:45am, driving an average speed of 32km/h.
a) Calculate the distance Tony travelled from A to B.

He stays at his friends house for 90 minutes. He then departs back home .He arrives back home at 11:45am.
b) Calculate the speed of his journey back home.

Grade
5 (4 Marks)

Congratulations. You have completed this topic.

Now go back to your revision planner and rate yourself out of 10.

Maths Memory