National 4
Homework Exercise 4
Speed, Distance and Time

1. Complete all calculations below **without a calculator**. *Show all working!*

    (a) 75% of £26   (b) (-15) + (-2)   (c) (-2)✕(-5) ✕(-6)
                                                                                            [4]

2. Harvey drove his truck for 4 hours at an average speed of 56 km/h.
    How far did he travel?
                                                                                            [2]

3. How long would it take to travel 258 miles at an average speed of 43 m.p.h?   [2]

4. Tess ran at an average speed of 7.6 m/s for 20 seconds.
     How far did she run?
                                                                                            [2]

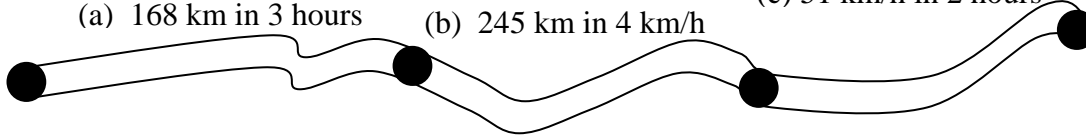5. Calculate the average speed of a train which covers 237 km in 3 hours.   [2]

6. For each section of the journey identify if it is speed, distance or time that is
     unknown and calculate it.

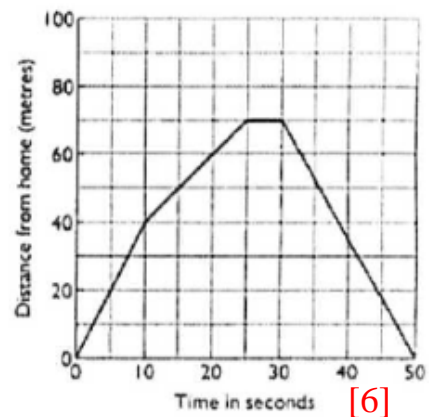   (c) 51 km/h in 2 hours
    (a) 168 km in 3 hours   (b) 245 km in 4 km/h   [6]

7. Helen ran from her home to the postbox at the end of
    her street to post a letter, before running home again.
    (a) How far did she run to the postbox?
    (b) For how long did she stop at the postbox?
    (c) Calculate her average speed as she ran back home.
    (d) Which part of her run was faster?
    (e) How far did she run altogether?

[6]

8.

Alten			
35	Dunmore		
93	22	Greenham	
85	57	30	Lazonby

Distances in kilometres

Use the distance chart to help you calculate
the average speed for each of the following
journeys.
(a) Alten to Greenham in 1 hour 30 minutes.
(b) Dunmore to Lazonby in three quarters of
an hour.   [4]