Distance Time Graphs   Mark Scheme

1.   (a)   (i)   ½ hour   2

                          B1 for ½ hour oe

              (ii)   100

                          B1 for 100

      (b)   80   2

                          B2 for 80
                          (B1 for 120/1.5)

      (c)   16   4

            320km = 320×5/8 (= 200 miles)
            Number of gallons = 200÷ 40 (=5)
            Cost = 5 × £3.20
                         M1 for 320×5/8
                         M1 for "200"÷40
                         M1 for "5"×£3.20
                         A1 for 16

                                                                [8]

2.   (a)   15   1

                          B1 for 15 (± 1)

      (b)   15   1

                          B1 for 15 (± 0.4)

      (c)   2

                          B1 horiz. line from (2, 20) to (3, 20)
                         B1 line from (3, 20) to (5, 0) or horizontal translation of it
                         SC B1 for any journey ending at (5, 0)

                                                                [4]

3. (a) 45   1
B1 cao

(b) 5   1
B1 cao

[2]

4. (a) 1330   1
B1 for 1330 or 1.30pm

(b) 0.65   1
B1 for 0.65 (accept 0.6 < rate < 0.7)

(c) Rain slowed oe   1
B1 for description (eg. Rain slowed, got less heavy, dropped from 1.5 to 1)

[3]

5. 1 km
5 mins
2 km   3
B1 cao
B1 cao
B1 cao

[3]