

Speed L2 Mark Scheme		
1(a)	$100 \div 50 (= 2)$	[1]
	2 m/s	[1]
1(b)	$1000 \div 125 (= 8)$	[1]
	8 m/s	[1]
1(c)	$20 \div 1 (= 20)$	[1]
	20 km/h	[1]
1(d)	$35 \div 0.5 (= 70)$	[1]
	70 km/h	[1]
1(e)	$504 \div 16 (= 31.5)$	[1]
	31.5 m/s	[1]
1(f)	$27 \div 4.5 (= 6)$	[1]
	6 m/s	[1]
1(g)	$130 \div 520 (= 0.25)$	[1]
	0.25 m/s	[1]
1(h)	$600 \div 20 (= 30)$	[1]
	30 mph	[1]
1(i)	$45 \div 1.5 (= 30)$	[1]
	30 mph	[1]
1(j)	$100 \div 2.5 (= 40)$	[1]
	40 mph	[1]
2(a)	$10:10 - 09:30 (= \frac{2}{3} \text{ hr})$	[1]
	$22 \div 2 \times 3 = 33 \text{ mph}$	[1]
2(b)	$11:00 - 10:40 (= \frac{1}{3} \text{ hr})$	[1]
	$20 \div 1 \times 3 = 60 \text{ mph}$	[1]
2(c)	$20 + 22 (= 42)$ $11:00 - 09:30 (= \frac{3}{2} \text{ hr})$	[1] Allow error carried forward from previous parts
	$42 \div 3 \times 2$	[1]
	$= 28 \text{ mph}$	[1]

3(a)	$2 \times 100 (= 200)$	[1]
	200 m	[1]
3(b)	$18 \times 1200 (= 21600)$	[1]
	21600 m	[1]
3(c)	$25 \times 400 (= 10000)$	[1]
	10000 m	[1]
3(d)	$16 \times 256 (= 4096)$	[1]
	4096 m	[1]
3(e)	$1000 \times 3600 (= 3600000)$	[1]
	3600000 m	[1]
3(f)	$22 \times 2 (= 44)$	[1]
	44 km	[1]
3(g)	$35 \times 3 (= 105)$	[1]
	105 mi	[1]
3(h)	$70 \times 8 (= 560)$	[1]
	560 mi	[1]
3(i)	$12 \times 360 (= 4320)$	[1]
	4320 m	[1]
3(j)	$110 \times 6 (= 660)$	[1]
	660 km	[1]
4(a)	$110 \times 10 (= 1100)$	[1]
	No because 1100 is less than 1109	[1]
4(b)	$647 + 626 (= 1273)$	[1]
	$1273 - 1109 = 164$ km	[1]
4(c)	$110 \times 6 (= 660)$	[1]
	Yes because 660 is greater than 647	[1]
4(d)	$110 \times 6 (= 660)$	[1]
	Yes because 660 is greater than 626	[1]
4(e)	$11 \times 110 (= 1210)$	[1]
	No because 1210 is less than 1273	[1]

5(a)	$100 \div 2 (= 50)$	[1]
	50 s	[1]
5(b)	$37000 \div 37 (= 1000)$	[1]
	1000 s	[1]
5(c)	$350 \div 14 (= 25)$	[1]
	25 s	[1]
5(d)	$504 \div 21 (= 24)$	[1]
	24 s	[1]
5(e)	$50400 \div 24 (= 2100)$	[1]
	2100 s	[1]
5(f)	$650 \div 26 (= 25)$	[1]
	25 hr	[1]
5(g)	$262144 \div 31.25 (= 8388.608)$	[1]
	8388.608 s	[1]
5(h)	$608 \div 19 (= 32)$	[1]
	32 hr	[1]
5(i)	$76.8 \div 30 (= 2.56)$	[1]
	2.56 hr	[1]
5(j)	$90 \div 45 (= 2)$	[1]
	2 hr	[1]
6(a)	$93 \div 80 (= 1.1625)$	[1]
	1.1625 hr	[1]
6(b)	$210 \div 120 (= 1.75)$	[1]
	1.75 hr	[1]
6(c)	$210 \div 100 (= 2.1)$	[1]
	2.1 hr	[1]
6(d)	$320 \div 80 (= 4)$	[1]
	4 hr	[1]
6(e)	$1.1625 + 1.75 + 2.1 + 4 (= 9.0125)$	[1] Allow error carried forward from previous parts
	9.0125 hr	[1]

7(a)	$23 \times 38 (= 874)$	[1]
	874 mi	[1]
7(b)	$874 \div 46 (= 19)$	[1] Allow error carried forward from previous part
	19 days	[1]
7(c)	$874 \div 38 (= 23)$	[1] Allow error carried forward from previous parts
	23 days	[1]
7(d)	$9.5 \times 11.5 (= 109.25)$	[1]
	$874 \div 109.25 (= 8)$	[1] Allow error carried forward from previous parts
	Yes (because 8 is less than 9)	[1]