FORD RALLYE SPORT CLUB

NATIONAL INDOOR RALLYE CHAMPIONSHIP

MAP 149

MARCH RALLY.

Gives a rally route to be plotted onto map 149. The rally consists of two laps of this route. PART A: Contains questions concerning the route, timing and servicing of the rally. PART B: Contains general rally questions for which it is not necessary to plot the route. PART C: Maximum score = 40 points. Each question correctly answered scores one point unless indicated otherwise. Time allowed = 1 hour only. MAP EDITION USED = B(1969)TC = Time Control PC = Passage Control SH = Spot Height SS = Special Stage No part of the route may use a road twice, not even to cross the route. RULES: All roads leading to the edge of the map are treated as dead ends. b) Neither the GCR's nor the SSR's of the RAC apply to this event. (Nor does the 50 m.p.h. speed limit). c) All route information is given in the correct order. d)

Distances given must be assumed to be correct. e)

Follow the shortest route based on the information given. f)

g) Assume all white roads go even if your local knowledge tells you otherwise.

The routes within SS are not given and should not be necessary. h)

Cars start at 1 minute intervals.

Penalties on the rally are: a) Per minute over the time allowed from TC to TC = 60 penalties

b) Per minute less than time allowed from TC to TC = 120 penalties

c) Per second over the target time on SS = 1 penalty (no penalty for beating target time).

d) Missing any TC, PC, SS = exclusion.

PART A - THE ROUTE

TC SS ROUTE INSTRUCTION							
TC1: Start	at start te	Lavenham: Junction of B1070 and B1071.					
In Ca	SS1	Start: 944485 Depart to N. Finish: 964501. Join B1115 at Hitcham and follow this road and then B1078 to 051513. Via Bull's Ash Corner and 072493 to SS2.					
	SS2	Start: SH 205 in 0750 Depart towards Crow Hall. Finish: 082490. Via Clamp Farm and Bleak Hall. Cross from East Suffolk to West Suffolk in 0746.					
TC2		Via 075458 to TC2. 054436 Approach from ENE. Via 047424 and $033\frac{1}{2}407$ to SS3.					
	SS3	Start: 026397. Finish: 009359 Approach from N. Via 008350. Cross A134 at 977315. Via 955297 and 930288 to TC3.					
TC3	THE RESERVE	920272 Approach from N. Go through Aldham (Approach from N) and Great Tey					
ef l	SS4	(Approach from ESE) to SS4. Start: SH 210 in 8826. Depart to NNW. Finish: 874288. 0.0 Fin SS4 1.7 5.8					
	co dimin la	0.45 3.7 6.0					
	ti.	0.9 7.9					
	na Airein (a l	and continue to SS5.					
TC4	SS5	Start: 806406. Finish: 799443. 812\frac{1}{2}448. Via 827451 and 879442 (Approach SSW) to TC5.					
TC5	11 60 63 50	890445 Depart to ESE.					
Ten	SS6	Start: $921\frac{1}{2}430$. Approach NNE. Finish: 943422 . Depart to NNW. Via 938433 and 915447 to TC6					
TC6		As TC1 (Approach from S.).					

(2 points)

	Surface	Distance			Surface	Distance
SS1	Tarmac	2.5 miles		SS4	Dirt	2.0 miles
SS2	Dirt	2.5 miles		SS5	Tarmac	4.0 miles
SS3	Tarmac	4.0 miles		SS6	Dirt	2.5 miles
All target tim	DAT OF A APPL	See Making see	stelle folkele	at anything being	g san econom he	rectly and ever
		First Lap	Second Lap	Miles		
TC1 - TC2		45 mins	42 mins	25		
TC2 - TC3		40 mins	36 mins	20		
TC3 - TC4		45 mins	40 mins	23		
100 101				commenced to Sectional		
TC4 - TC5		15 mins	11 mins	7		

PART	B - ROUTE QUESTIONS		
1711(1	Questions		Answers
1.	PC1 is at the first point where an electricity transmission line crosses the route. What is the map reference of PC1?	1	
2.	What is the reference of the next point at which an electricity transmission line crosses the route?		
3.	PC2 is outside a church with a tower between the finish of SS2 and TC2. What is the map reference of PC2?		
4.	In what county is TC2?		
5.	How far apart (in a straight line) are the two points at which the route crosses the River Stour?	Co. 1ai	PARTA
6.	PC3 is between the end of SS3 and TC3 at a point where there is an orchard on both sides of the road. It is 4.05 kms grid N. of the point at which St. Botolph's Brook crosses the A133. What is the map reference of PC3?		neil (to)
7.	PC4 is south of the River Colne and east of the railway running from Colchester to Sudbury. It is further west than the level crossing in 9023 and on exactly the same northing as SH 135 (on A604 2.1 miles E. of PC4). What would you expect to find at PC4?	SEC	
8.	PC5 is 1.65 kms grid E. of the Triangulation Pillar which is 0.25 miles W. of the A131 in 8334. From what direction would you approach PC5?		gog.
9.	PC6 is between a level crossing and a county boundary on the section from TC4 to TC5. How many identical SH are marked within 0.5 miles of PC6?		
10.	What would you expect to find at the more westerly of the points at which the route crosses latitude 52° 05' N.?		
11.	Your recce has shown that the route can be driven in these times: TC1 - TC2: 40 mins, TC2 - TC3: 36 mins, TC3 - TC4: 36 mins, TC4 - TC5: 14 mins, TC5 - TC6: 24 mins. If you can have service at two TC's only which would you choose for the first lap?	a)	
	and for the second lap? If on the first lap only service cars were not allowed to the west of Easting 90	b)	
12.	which two TC would you then choose on that lap? Between lap one and lap two there is a heavy snowfall which a very efficient ploughing organisation is able to clear completely from the road sections although the SS are	882	
	left covered. You have a choice of two types of tyres for the second lap. Type H has 200 studs which will not come out whether the tyre is used on snow or clear tarmac.		
	Type F has 400 studs but is made of softer rubber. This type is 10% quicker than Type H when used on snow so long as it retains 200 or more studs. As soon as 200	080	
	studs have gone it becomes 10% slower than Type H. Studs are lost at a rate of 10 per mile on any surface. Which type of tyre would you use if one set has to last the		

complete lap?

13.	The tyres referred to in question 12 were made by Firetop. Whitst you were pondering	arther-
	your choice of their tyres the Dunyear rep. offered you his version of the same types.	
	The Dunyear type F is made of harder rubber than the equivalent Firelop and only	
	loses 3 studs per mile. Which Dunyear tyre would you use?	
14.	The farmer from Roger's Farm is watching the rally outside Edwardstone Church	
	when you roll to a stop in front of him having run out of petrol. He offers you a can	
	of petrol which is in a shed at the SE corner of his orchard. You will have to walk to	
	fetch this can using only roads and paths marked on the map and not going along the route	
	of the SS which approaches the church from the W. and leaves to the ENE. If you	
	walk at 4 mph and to finish the stage will take 1 minute of driving. Will you be able	
	to reach the finish within 1 hour of scheduled time and so avoid exclusion?	(2 points)
15.	You have service at TC4 and TC6. Your car does 10 mpg on SS and 15 mpg between	20 mark, denied blomb, 1
	SS. How much fuel would you put in at each point to keep the car as light as possible?	TC4
	(Round up to the next gallon to give a safety margin).	TC6
16.	If service crews were only allowed to use A & B roads and only to travel in the same	100
	direction as the rally. At which TC's would it not be possible to service?	A PROPERTY OF THE PARTY OF
17.	The bridge over the River Brett in 0340 is impassable because of repairs. Divert	
	around this bridge to use as much of the original route as possible, but do not cross	Top on II you war
	a county boundary on the diversion. At what reference will you now cross the River	11100 300
0	Brett if you use the shortest route?	ed to table to the
.8.	At TC2 on lap one your service crew find that you have an exhaust bracket about to	De Jaily at
	break. They do not have a replacement but know a blacksmith who could make one	27. Name troy
	in 20 mins. His smithy is 3.2 miles grid west of the intersection of latitude 52° N. and	
	longitude 0° 50' East. Your service car can only average 30 mph. Which is the first	aut at dedit as
	TC at which the new bracket could be fitted?	as today of the
9.	On the first lap of the rally you find that your Group 1 rally car is slower than your	
	Group 2 recce car to the extent that sections which you drove in less than 30 mins	
	on recce now take 2 mins longer and sections which you drove in 30 mins or more	
	now take 4 mins longer. Assuming that you continue at the same speed, what would	BEAR LANGE.
	your penalties be on lap two? (Recce times in question 11)	ART B R. U JUS
0.	You are the team manager controlling three cars on this rally. For best results you	SHOW INOW
	want to use racing tyres on the tarmac stages and M & S tyres on the dirt stages.	You was
	Your cars start on racing tyres and you have tyres available at the end of each SS	nd el tenso. 100
	but you have no transport to ferry tyres between SS. What is the minimum number	inde dive to the
	of tyres you will need excluding those on the cars?	
1.	The front brake pads on your car will last 120 rally miles. They can be changed in	in the same of the
THE G	4 mins. At what TC and on which lap would you change them?	
	(Recce times in question 11).	Barthall M.
2.	The rally starts at 16.00 and you are car no. 8. To save weight you start without	pe on cond
4.		
	any extra lights. At 18,45 you will need to use your lights which can be fitted in	August
0	3 mins. At which TC would you fit them?	
3.	How many marshals would be needed to man this rally if the requirements were:	
	Two at each TC location	
	Two at each PC location	
	Two at each SS start	
	Two at each SS finish	
	Two for every mile or part thereof on each SS?	

24. Calculate the penalties for car 15 according to his time card for the first part of the rally:

MARCH RALLY	Time Card A		Comp No. 15		
2, Braches	Н	M	S	Penalty	
TC1	16	14	00	7,00	
SS1 Start	16	19	00	at markly a composition	
Finish	16	21	46	In least a garage of	
SS2 Start	16	37	00	teduta hode scalal d	
Finish	16	40	39	bas abiga eles gelo.	
TC2	16	59	00	d superstand on the chy	
SS3 Start	18	06	00	eta sel da <u>nel</u> or bas i	
Finish	18	09	58	lo apol falility felm	
TC3	17	44	00	SOT has O'T as solv	
		TOTAL	PENALTY	Y =	

(2 points)

PART C - GENERAL QUESTIONS

25.	If you were making a romer for plotting 6 figure refe far apart would you make the divisions on the romer	Mary Market 6	
26.	What is the location of the most southerly rest stop o	Brett if you u	
	In what country is it?	(1pt if both correct)	
27.	Name two other countries which run events similar in	(1pt if two correct)	
28.	How is fuel consumption normally expressed in Europ	pean Continental countries?	O I is need to led
29.	In what countries are these well known rally places?	a) Tim Healy Pass	a)
		b) Volos	b)
		c) Col de Turini	c)
30.	If on a rally you came across a sign showing a clock what would it indicate?	face on a yellow background,	(1pt for 3 correct)
31.	How many miles are there in one degree of latitude?	(To the nearest mile).	TOTAL STATE OF THE
32.	What is the scale of a half inch to one mile map?		
33.	With what event do you associate:	a) Burzet	a)
		b) Druidale	b)
		c) Morogoro	c)
34.	What is the maximum average speed that may be used tarmac special stages in Britain?	d in calculating target times for	(1pt if 3 correct)