E1 *Data Collection* Activities

Activities

E1.1 Sampling in a Village
E1.1 Sheet 2, Map
E1.1 Sheet 3, Data

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ACTIVITY E1.1, Sheet 1 *Sampling in a Village*

The map on Sheet 2 is of a village. There are 200 houses of varying types and in different areas. You represent *Kingston Surveys,* and have been asked to provide answers to the following questions.

1. Is the head of the household an immigrant?

2. Does the household have a telephone?

3. Does the household have a car?

4. Did the head of the household vote for the People's National Party at the last General Election?

As you have time to visit only *50 houses* you need to design an effective way of choosing a sample of 50 from the 200 houses.

Possible methods of choosing the sample include:

1. Using a pin and the map (eyes closed).

2. Taking every fourth house on the map.

3. Placing a grid over the map and taking an appropriate number of houses in each grid square.

4. Numbering all the houses from 1 to 200 and taking a random sample.

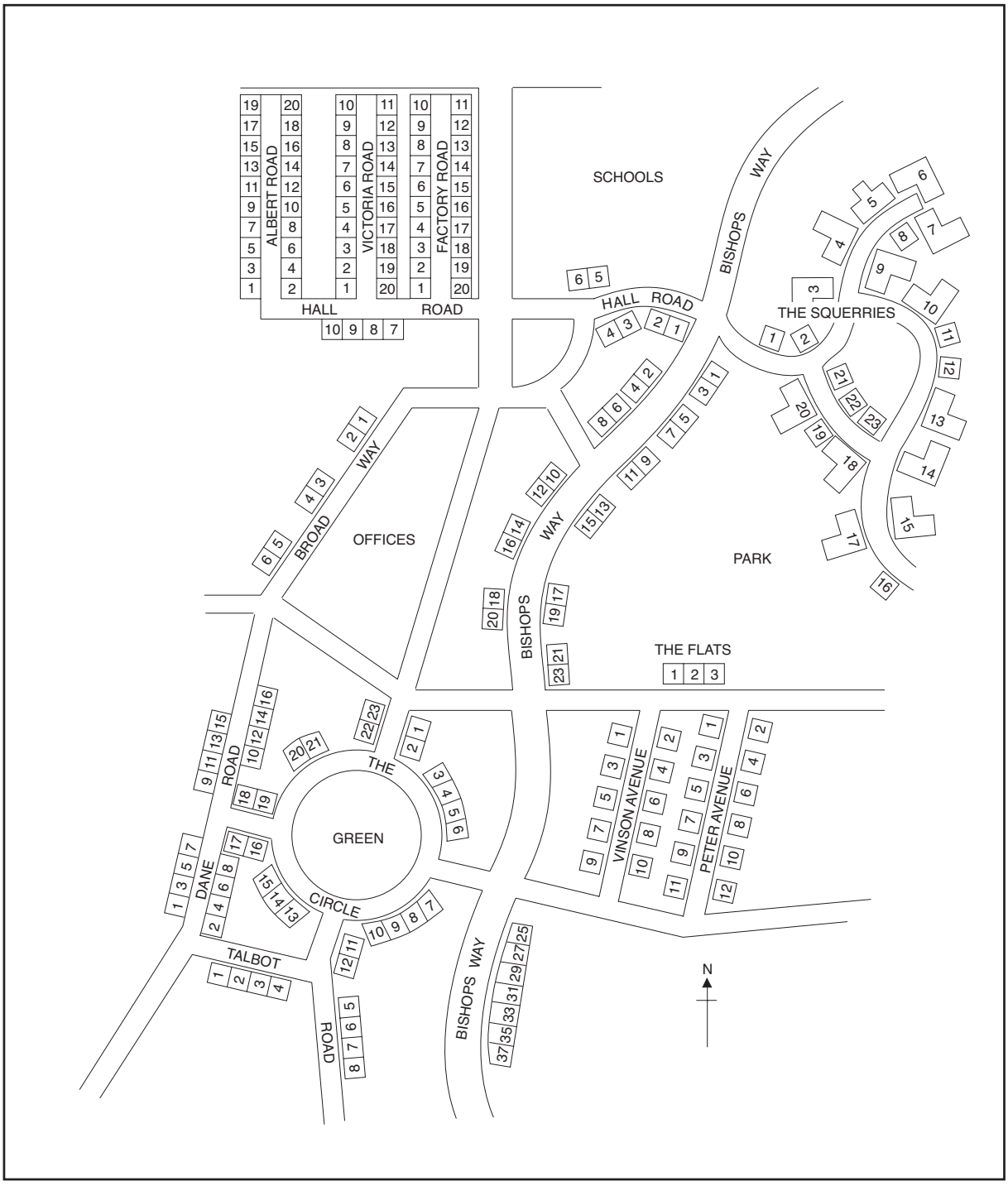
Choose one of these methods (or your own alternative) and find the answers to the four questions for your sample of 50 from the data in the table on Sheet 3. Compare your answers with the complete sample and comment on your method of sampling.

For the complete sample, the results are

1. I : 7.5%
2. T : 80%
3. C : 50%
4. P : 35%

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ACTIVITY E1.1, Sheet 2, Map *Sampling in a Village*



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ACTIVITY E1.1, Sheet 3, Data — *Sampling in a Village*

R	S	I	T	C	P
Albert Road					
1	1	0	1	0	0
2	3	0	1	0	0
3	5	0	0	0	0
4	7	0	0	1	0
5	9	0	1	0	0
6	11	0	1	0	0
7	13	0	1	0	0
8	15	0	1	0	0
9	17	0	0	1	0
10	19	0	1	0	0
11	2	0	1	0	0
12	4	0	1	1	0
13	6	0	0	1	0
14	8	0	1	0	0
15	10	0	1	0	0
16	12	0	0	0	0
17	14	0	1	0	0
18	16	0	1	0	0
19	18	0	0	0	0
20	20	0	0	0	0
Victoria Road					
21	1	0	1	0	0
22	2	0	1	1	0
23	3	0	1	0	0
24	4	0	0	0	0
25	5	0	1	0	0
26	6	0	1	0	0
27	7	0	1	0	0
28	8	0	0	0	0
29	9	0	0	0	0
30	10	0	1	0	0
31	11	0	1	0	0
32	12	0	1	1	0
33	13	0	1	0	0
34	14	0	0	0	0
35	15	0	1	0	0
36	16	0	1	0	0
37	17	0	1	0	0
38	18	0	1	1	0
39	19	0	0	0	0
40	20	0	1	0	0
Factory Road					
41	1	0	0	1	0
42	2	0	0	0	0
43	3	0	1	0	0
44	4	0	1	0	0
45	5	0	0	0	0
46	6	0	1	0	0
47	7	0	1	0	0
48	8	0	0	1	0
49	9	0	1	0	0
50	10	0	1	0	0
51	11	0	1	1	0
52	12	0	0	0	0
53	13	0	1	0	0
54	14	0	1	0	0
55	15	0	0	0	1
56	16	0	1	0	1
57	17	0	1	0	1
58	18	0	1	0	0
59	19	0	0	0	1
60	20	0	0	0	1
Hall Road					
61	1	0	1	0	0
62	2	0	1	0	0
63	3	0	1	1	0
64	4	0	0	0	0
65	5	0	1	0	0
66	6	0	1	0	1
67	7	1	0	0	0
68	8	1	1	1	0
69	9	0	1	0	1
70	10	0	1	1	1
Broad Way					
71	1	0	1	1	0
72	2	0	1	1	1
73	3	0	1	0	1
74	4	0	1	0	0
75	5	0	1	0	1
76	6	0	1	1	1

R	S	I	T	C	P
Dane Road					
77	1	0	1	0	1
78	3	0	1	1	1
79	5	0	1	1	1
80	7	0	1	1	0
81	9	0	1	0	0
82	11	0	1	0	1
83	13	0	1	1	1
84	15	0	1	0	1
85	2	0	1	0	1
86	4	0	1	0	0
87	6	0	0	1	0
88	8	0	1	1	1
89	10	0	1	1	0
90	12	0	1	1	1
91	14	0	1	0	0
92	16	0	1	0	1
Talbot Road					
93	1	0	1	1	1
94	2	0	1	0	1
95	3	0	1	1	1
96	4	0	1	1	0
97	5	0	1	0	1
98	6	0	1	1	1
99	7	0	1	0	0
100	8	0	1	0	1
The Circle					
101	1	0	1	1	0
102	2	0	1	0	1
103	3	0	1	1	1
104	4	0	1	1	1
105	5	0	1	1	0
106	6	0	1	1	1
107	7	0	0	0	0
108	8	0	1	1	1
109	9	0	1	0	0
110	10	0	1	1	1
111	11	0	1	1	0
112	12	0	1	1	1
113	13	0	1	1	0
114	14	0	0	0	0
115	15	0	1	1	1
116	16	0	1	1	0
117	17	0	1	0	1
118	18	0	1	1	0
119	19	0	1	1	0
120	20	0	1	1	0
121	21	0	1	1	0
122	22	0	0	1	0
123	23	0	1	1	0
The Flats					
124	1	0	1	1	1
125	2	0	1	1	1
126	3	0	1	0	1
Bishops Way					
127	1	0	1	1	1
128	3	1	1	1	0
129	5	0	1	0	1
130	7	0	0	0	1
131	9	0	1	1	1
132	11	0	0	1	1
133	13	0	1	1	1
134	15	0	1	0	1
135	17	1	0	1	0
136	19	1	1	0	0
137	21	0	0	1	1

R	S	I	T	C	P
Bishops Way, cont'd					
138	23	1	0	0	0
139	25	0	1	0	1
140	27	1	1	0	0
141	29	1	0	0	0
142	31	1	1	1	0
143	33	0	1	1	1
144	35	1	1	0	0
145	37	1	1	0	0
146	2	1	1	0	0
147	4	1	0	1	0
148	6	0	0	1	1
149	8	0	1	1	1
150	10	0	1	0	1
151	12	0	1	0	1
152	14	1	1	0	1
153	16	1	0	0	0
154	18	0	1	0	1
155	20	0	1	0	0
The Squerries					
156	1	0	1	1	0
157	2	0	1	1	0
158	3	0	1	1	0
159	4	0	1	1	0
160	5	0	1	1	0
161	6	0	1	1	0
162	7	0	1	1	0
163	8	0	1	1	0
164	9	0	1	1	0
165	10	0	1	1	0
166	11	0	0	1	1
167	12	0	1	1	0
168	13	0	1	1	0
169	14	0	1	1	0
170	15	0	1	1	0
171	16	0	1	1	0
172	17	0	1	1	0
173	18	0	1	1	0
174	19	0	1	1	0
175	20	0	1	1	0
176	21	0	1	1	0
177	22	0	1	1	0
178	23	0	1	1	0
Vinson Avenue					
179	1	0	1	1	1
180	3	0	1	1	1
181	5	0	1	0	0
182	7	0	0	1	1
183	9	0	1	1	0
184	2	0	1	1	0
185	4	0	1	1	1
186	6	0	1	1	0
187	8	0	0	0	1
188	10	0	1	1	1
Peter Avenue					
189	1	0	1	1	0
190	3	0	0	1	1
191	5	0	1	1	0
192	7	0	1	0	1
193	9	0	1	1	1
194	11	0	1	1	1
195	2	0	1	0	0
196	4	0	0	1	1
197	6	0	1	1	1
198	8	0	1	1	0
199	10	0	1	1	0
200	12	0	1	0	1

KEY

R : reference number S : house number I : immigrant
T : telephone C : car P : People's National Party voter

1 : Yes

0 : No