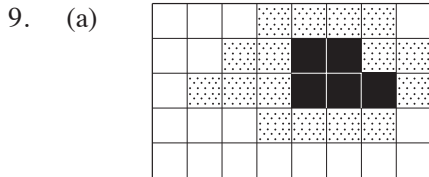


20.2 Presentation of Data

1. (a) 40 (b) 30 (c) 180 (d) 9 (e) £7500
2. (a) about 260 (b) about 10 000 (c) they need less
3. (a) 1 800 000 (b) UK (c) 200 000
(d) Far fewer teachers in Somalia than in Vietnam.
4. (a) 29 (b) 6 (c) 6
5. (a) 370 000 (million) (b) 15 days (c) very large population

6. (a) £8562
 (b) Each disc for Fairplan is worth £7132, which is far less than £8562.
7. (a) 6 (b) 36 (c) 120 (d) 15%, 25%, 10%, 30%, 5%, 15%
8. (a) 65 - 70 (b) (i) 10-15 (ii) about 14% (c) about 6.5%
 (d) e.g. In India, very few people live to over 70; in UK, significantly more females than males live beyond 70.



- (b) Towards the top right corner, as there are more pupils in that area.
10. (a) (i) Under 5% (ii) 5–10%
 (b) Risk is greater for men, as there is more of the darker shading in total on the diagram.
 (c) (i) Risk is higher with age
 (ii) Risk is less for non-smokers.

11. (a)

1	5	6	8
2	1 2 4 4	6	8 9
3	1 1 2 5	6 7	8
4	0 1 2	6	9
5	1 2	7	

(b) (i) 42 (ii) 32

12. (a)

1	5	7	8	8	8	9	9									
2	0	1	1	1	1	2	3	3	3	4	4	5	6	7	7	8
3	1	2	3	4	5	5	6	7								
4	0	3	5	5	8											
5	1	7	8													
6	1	2	3	5	5	9										
7	1	3														
8	2															

13.

	17	0	4	9	9
	18	2	3	5	
	19	0	5	5	
2	3 3	20	1	2	
	5	21	0		
	1	22			
	7	23			
0	6 9	24	0		
	3 4	25			
2	6 6	26	3		
	3	27			
	3 8	28			

For Volume 1, the data is more spread out than for Volume 2, and it has a higher average value.

14. (a) $181^\circ, 93^\circ, 51^\circ, 35^\circ$ (b) 3.14 cm
(d) Total decrease in attendance, but Division 1's share of attendance has increased.
15. (a) 98 (b) $\frac{37}{98}$ (c) $r^2 = 24^2 \times \frac{31}{39}$; $r \approx 21.4$ mm
(e) overall reduction with time, particularly at 'take off'
(f) multiple bar chart – gives better representation of each category, and overall trends.
16. Vertical axis does not start at zero; hence not in proportion to % values.
17. (a) The vertical axis starts at 5 which gives a misleading impression of the overall trends; also the 'Western Europe' group looks similar to the other groups whereas it is in fact much larger.
(b) 1985 (c) 7 (million) (d) 1989
18. (a) 1983 (b) Just over 6 bn Fr.
(c) All improving with SNCF continuing to be more productive than DB, and DB more productive than BR.
(d) The vertical scale does not start at zero, and hence exaggerates productivity.