

44 End of cruise barbecue

- 1 (a) 17 jugs are needed.
(b) 16 jugs are full.
- 2 (a) 381 kebabs
(b) 277 kebabs
(c) 261 kebabs
- 3 (a) 15 tables (b) 23 tables
(c) 37 tables (d) 44 tables
- 4 12 balloons
- 5 13 boxes
- 6 11 burgers

45 Centiles

- 1 (a) red 31% blue 21% yellow 48%
(b) red 26% blue 30% yellow 44%
(c) red 8% blue 60% yellow 32%
- 2 See Workbook page 9, question 1
- 3 68%
- 4 (a) complete 85% not complete 15%
(b) complete 17% not complete 83%
- 5 (a) 35% are white.
(b) 38% have medium tiles.
- 6 See Workbook page 9, questions 2 and 3

Soldiering on**46**

- 1 (a) $\frac{7}{10}$ (b) $\frac{3}{20}$ (c) $\frac{1}{25}$ (d) $\frac{3}{5}$ (e) $\frac{6}{25}$ (f) $\frac{13}{20}$
- 2 (a) 100 soldiers (b) 20 soldiers (c) 50 soldiers
- 3 (a) 10 (b) 9 (c) 9 (d) 9
(e) 21 (f) 3 (g) 65 (h) 16
(i) 15 (j) 9 (k) 30 (l) 21
- 4 (a) 16 soldiers (b) 120 soldiers
- 5 (a) November: 4710 Roman 942 Mediaeval 2355 Hussars
December: 1780 Roman 356 Mediaeval 890 Hussars
(b) Possible reasons:
More kits were needed in time for increased sales at Christmas.
The factory was on holiday at Christmas time.
Other valid reasons are possible.

Transport kits**47**

- 1 (a) 63 (b) 152 (c) 117 (d) 315
- 2 1940 sports cars 1455 racing cars
970 classic cars 485 vintage cars
- 3 (a) 39 (b) 93 (c) 87 (d) 1110
- 4 1290 Concorde kits
- 5 3430 tram cars
- 6 855 buses were faulty.

- 1 (a) 0.16 (b) 0.97 (c) 0.45 (d) 0.26
 (e) 0.40 (f) 0.70 (g) 0.07 (h) 0.04
 (i) 0.21 (j) 0.01 (k) 0.10 (l) 1
- 2 (a) 88 Technokits (b) 40 Electrokits
 (c) 72 Buildakits (d) 68 Structakits
- 3 (a) 72 (b) 48 (c) 63 (d) 126
- 4 (a) 101 (b) 140 (c) 75 (d) 52
 (e) 60 (f) 110 (g) 82 or 83 (h) 51
- 5 (a) Mosaic: 588 more kits
 Buildakit: 189 more kits
 Technokit: 1584 more kits
 (b) Vintage car: 429 fewer kits
 Galleon: 258 fewer kits
 Balloon: 770 fewer kits

- 1 Parkland School: 3 to 5 years $\frac{36}{100}$ 36%
 6 to 8 years $\frac{24}{100}$ 24%
 older than 8 $\frac{40}{100}$ 40%
 Queensway School: 3 to 5 years $\frac{29}{100}$ 29%
 6 to 8 years $\frac{33}{100}$ 33%
 older than 8 $\frac{38}{100}$ 38%
 Crinan School: 3 to 5 years $\frac{42}{100}$ 42%
 6 to 8 years $\frac{24}{100}$ 24%
 older than 8 $\frac{34}{100}$ 34%
- 2 Small jigsaws $\frac{8}{25}$ 32%
- 3 (a) $\frac{6}{25}$ 24% (b) $\frac{34}{50}$ 68% (c) $\frac{29}{50}$ 58%
 (d) $\frac{13}{20}$ 65% (e) $\frac{8}{20}$ 40% (f) $\frac{11}{25}$ 44%

- 4 Small Constructakits $\frac{6}{24}$ 25%
- 5 (a) large kits 25% small kits 75%
 (b) large kits 50% small kits 50%
 (c) large kits 10% small kits 90%
 (d) large kits 50% small kits 50%
 (e) large kits 75% small kits 25%
 (f) large kits 10% small kits 90%
- 6 (a) 50% (b) 28% (c) 50% (d) 45% (e) 36%
 (f) 41% (g) 25%
- 7 90 small Buildakits

- 1 (a) WHICH KIT DO YOU WANT TO WIN
 (b) Answers depend on the children's choice.
- 2 (a) More boys entered (40% girls, 45% boys). (b) 15% were adults
- 3 (a)
- | Kit chosen | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 |
|-------------|--------|--------|--------|--------|--------|--------|
| Spykit | 4% | 7% | 11% | 19% | 28% | 36% |
| Technokit | 28% | 30% | 25% | 22% | 20% | 16% |
| Mystery kit | 68% | 63% | 64% | 59% | 52% | 48% |
- (b) Weeks 5 and 6
 (c) Week 6
- 4 (a) 10% lived in Wales.
 (b) 600 lived in Scotland.

- 1 (a) 31
 (b) Technokit $\frac{8}{31}$ Spykit $\frac{11}{31}$
 Dinosaurkit $\frac{9}{31}$ Mystery kit $\frac{3}{31}$
- 2 (a) 35% (b) 29% (c) 10%
- 3 (a) 43% (b) 59% (c) 61% (d) 40%
 (e) 68% (f) 83% (g) 6%
 All of these percentages are to the nearest whole number

- 4 (a) 45 parents
 (b) less than £4 $\frac{4}{45}$
 £4 to £5.99 $\frac{10}{45}$ or $\frac{2}{9}$
 £6 to £7.99 $\frac{8}{45}$
 £8 to £9.99 $\frac{12}{45}$ or $\frac{4}{15}$
 £10 or more $\frac{11}{45}$
 (c) less than £4 9%
 £4 to £5.99 22%
 £6 to £7.99 18%
 £8 to £9.99 27%
 £10 or more 24%
- These percentages are to the nearest whole number.

- 5 (a) (b) Answers depend on the results of the children's surveys.

52 Global Research Technology

- 1 (a) 3 12 21 30 39 48
 (b) 150 125 100 75 50 25
 (c) 4 8 16 32 64 128
 (d) 7 21 35 49 63 77
 (e) 123 234 345 456 567 678
 (f) 69 56 43 30 17 4
- 2 (a) 10 31 52 73 94 115
 (b) 160 80 40 20 10 5
 (c) 4 5 7 10 14 19
 (d) 100 99 96 91 84 75

- 1 (a)

Number of red beads	Number of yellow beads
2	10
3	15
4	20

 - The number of yellow beads is 5 times the number of red beads.
 - When there are 10 red beads, there are 50 yellow beads.
- (b)

Number of red beads	Number of yellow beads
3	2
4	3
5	4

 - The number of yellow beads is one less than the number of red beads.
 - When there are 10 red beads, there are 9 yellow beads.
- (c)

Number of red beads	Number of yellow beads
4	2
6	3
8	4

 - The number of yellow beads is half the number of red beads.
 - When there are 10 red beads, there are 5 yellow beads.
- (d)

Number of red beads	Number of yellow beads
2	6
4	8
5	9

 - The number of yellow beads is 4 more than the number of red beads.
 - When there are 10 red beads, there are 14 yellow beads.
- 2 (a)

Number of blue beads	Number of green beads
2	6
3	9
5	15

 - (b) The number of green beads is 3 times the number of blue beads.
 - (c) •24 •45 •75 •120 blue beads