1)

127	96
$\frac{1}{2}$ book = **223**	

$\frac{1}{2}$ book = **223**	$\frac{1}{2}$ book = **223**
whole book = **446**	

223 is halfway through the book. I need to double 223 to find the number of pages the book has altogether.

223 × 2 = 446 pages

2) Multiple answers possible, including:

A = 120/150/180/123

B = 80/100/120/82

C = 40/50/60/41

3)

a) Number of parents at Tuesday's performance is 168 - 29 = 139
168 + 139 = 307 parents altogether

b) Yes, there would be 8 seats left over.
350 - 35 = 315
315 - 307 = 8 seats left

c) 81 – 52 = Ola's age
Ola = 29
81 – (24 + 29) = Sadie's age
Sadie = 28

d) Month 1: £9456 + £3567 = £13 023
Month 2 food: £9456 - £380 = £9076
Month 2 drinks: £3567 - £650 = £2917
Month 2 total: £9076 + £2917 = £11 993
Month 1 and 2 total: £13 023 + £11 993 = £25 016
£26 500 - £25 016 = £1484 more needed to meet their target.

1) Anna has correctly modelled the problem. Her bar model shows that we could represent the problem by adding together 175 and 128 to give 303. Then we could find the difference between 303 and 419 to give the final answer of 116. Isaac is incorrect as his model has the total number of people on the train on the same bar as the number of people who get on at the first and second stops. If he adds all these numbers together, this will not show him how many people were on the train at the start.

2) Lily is correct. She has started by working out the price of just one bottle of juice. She finds the difference between the prices of a sandwich and one bottle of juice and a sandwich and two bottles of juice. Now she knows a bottle of juice costs 65p. She now only needs to take this price away from the total cost of a sandwich and one bottle of juice. This will give the cost of a sandwich on its own.

1) £25 – £1.50 = £23.50

   £5.50 + £6.80 = £12.30

   £23.50 – £12.30 = £11.20

   £11.20 ÷ 2 = £5.60

   'Twinkl Rocks' and 'Twinkl Moves' cost £5.60 each.

2) a) Halim could buy the Winter, Happiness and Love albums for £12.59. This would leave him with £7.41

   b) Ambient, Summer and Calm albums for £19.79, which would leave him with 21p.

   c) Halim could buy four albums (Winter, Love, Happiness and Calm for £18.08. This would leave him with £1.92).

   d) £10
   Answers will vary but might include: Winter album and Love album = £8.24 and £1.76 left over

   £13
   Answers will vary but might include: Winter album, Love album and Happiness album = £12.59 and £0.41 left over or Energy album and Calm album = £12.14 and £0.86 left over.

   £15
   Answers will vary but might include: Ambient album and Summer album = £14.30 and £0.70 left over