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- 1 (a) 14 cards on each shelf, 2 left over  
 (b) 12 cards on each shelf, 1 left over  
 (c) 18 cards on each shelf, 2 left over
- 2 (a) 12 cards on each shelf, 2 left over  
 (b) 18 cards on each shelf, 3 left over  
 (c) 16 cards on each shelf, 1 left over
- 3 (a) 13 boxes, 1 left over (b) 12 boxes, 2 left over  
 (c) 14 boxes, 1 left over (d) 11 boxes, 5 left over  
 (e) 11 boxes, 4 left over
- 4 (a) 13 cards, 5p left (b) 17 cards, 1p left  
 (c) 13 cards, 3p left (d) 17 cards, 4p left  
 (e) 12 cards, 3p left (f) 11 cards, 1p left
- 5 (a)  $32 = (6 \times 5) + 2$  (b)  $45 = (7 \times 6) + 3$   
 (c)  $39 = (4 \times 9) + 3$  (d)  $39 = (5 \times 7) + 4$   
 (e)  $85 = (10 \times 8) + 5$  (f)  $438 = (100 \times 4) + 38$   
 (g)  $(18 \div 3) + 2 = 8$  (h)  $(54 \div 6) - 3 = 9$   
 (i)  $(40 \div 8) + 4 = 9$

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- 1 (a) 15 taxis (b) 8 taxis  
 (c) 10 taxis (d) 6 taxis
- 2 Class 2 has 8 teams (2 children left over)  
 Class 3 has 5 teams (3 children left over)  
 Class 4 has 3 teams (4 children left over)  
 Class 5 has 6 teams (2 children left over)  
 Class 6 has 7 teams (1 child left over)

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- 1 (a)  $200 \times 10 = 2000$  (b)  $700 \times 10 = 7000$   
 $2000 \div 10 = 200$   $7000 \div 10 = 700$
- (c)  $400 \times 10 = 4000$  (c)  $900 \times 10 = 9000$   
 $4000 \div 10 = 400$   $9000 \div 10 = 900$
- 2 (a)  $5000 \div 10 = 500$  (b)  $8000 \div 10 = 800$  (c)  $6000 \div 10 = 600$   
 (d)  $3000 \div 10 = 300$  (e)  $1000 \div 10 = 100$  (f)  $10\ 000 \div 10 = 1000$
- 3 (a)  $60 \times 100 = 6000$  (b)  $90 \times 100 = 9000$   
 $6000 \div 100 = 60$   $9000 \div 100 = 90$
- 4 (a)  $3000 \div 100 = 30$  (b)  $8000 \div 100 = 80$  (c)  $7000 \div 100 = 70$   
 (d)  $5000 \div 100 = 50$  (e)  $1000 \div 100 = 10$  (f)  $4000 \div 100 = 40$
- 5 (a) The digits move two places to the right.  
 (b) The digits move one place to the right.

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- 1 (a) 12 (b) 18 (c) 14
- 2 (a) 13 (b) 19 (c) 16
- 3 (a) 11 cards (b) 17 cards (c) 14 cards (d) 19 cards
- 4 (a) 15 cards (b) 18 cards (c) 13 cards (d) 16 cards
- 5 (a) 11 (b) 12  
 (c) 15 (d) 12  
 (e) 13 (f) 14  
 (g) 11 (h) 14