| Question | Answer |
| :---: | :---: |
| 1 | a) $1,3,6$ <br> b) 10 <br> c) |
| 2 | a) $3,5,7,9$ <br> b) 11 <br> c) 13 |
| 3 | 5 triangles and 16 lines <br> $4^{\text {th }}$ term |

a) Annie might think that the number of circles doubles each time. Dexter might think that 3 circles are added each time. Both could be correct.
b) If we had 3 terms, we'd know if the rule was add 3 each time or double each time. This is because we could compare the difference on two occasions, rather than having to make a prediction using just 1 difference.
Dora is not correct. In the $6^{\text {th }}$ diagram there will be 13 squares and not 14 squares.

a) $1,2,3$
b) 10
c) $6,10,14$
d) 42
e) 402

It's not possible to draw the 6 th term of the sequence as there would be no more squares left to reduce the vertical columns

$4^{\text {th }}$ term

