1. Here are the first four terms in a number sequence.

   8 16 24 32

   Haydar says "If I double the 3rd term, I will get the 6th term"

   Is Haydar correct?

   Explain your answer.

1. .....

2. Here are the first four terms in a number sequence.

   3 7 11 15

   Evie says "If I double the 4th term, I will get the 8th term"

   Is Evie correct?

   Explain your answer.

2. .....

3. Here are the first five terms in a number sequence.

   5 10 15 20 25

   Aamir says "If I double the 5th term, I will get the 10th term"

   Is Aamir correct?

   Explain your answer.

3. .....

4. Here are the first five terms in a number sequence.

   7 13 19 25 31

   Igor says "If I double the 4th term, I will get the 8th term"

   Is Igor correct?

   Explain your answer.

4. .....

Answers

1. Yes + a method that could lead to the deduction e.g. finds the 6th term (48) and $2 \times 24 = 48$
   OR the sequence is 8n and this is proportional
2. No + a method that could lead to the deduction e.g. finds the 8th term (31) and $2 \times 15 \neq 31$
   OR sequence is $4n - 1$ and this is not proportional
3. yes AND reason e.g. finds the 10th term (50) and $2 \times 25 = 50$
   OR sequence is 5n and this is proportional
4. no + a method that could lead to the deduction e.g. finds the 8th term (49) and $2 \times 25 \neq 49$
   OR sequence is $6n + 1$ and this is not proportional