

1. Here are the first four terms of an arithmetic sequence.

7            12            17            22

Samuel says “If I double the 4th term, I will get the 8th term”

Is Samuel correct? .....

Explain your answer.

1. Here are the first four terms of an arithmetic sequence.

7            12            17            22

Samuel says “If I double the 4th term, I will get the 8th term”

Is Samuel correct? .....

Explain your answer.

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

2        4        6        8        10        12

Minha says “If I double the 6th term, I will get the 12th term”

Is Minha correct? .....

Explain your answer.

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

2        4        6        8        10        12

Minha says “If I double the 6th term, I will get the 12th term”

Is Minha correct? .....

Explain your answer.

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

7      10      13      16      19

Adeena says “If I double the 5th term, I will get the 10th term”

Is Adeena correct? ....

Explain your answer.

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

7      10      13      16      19

Adeena says “If I double the 5th term, I will get the 10th term”

Is Adeena correct? ....

Explain your answer.

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

6      10      14      18      22

David says “If I double the 4th term, I will get the 8th term”

Is David correct? ....

Explain your answer.

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

6      10      14      18      22

David says “If I double the 4th term, I will get the 8th term”

Is David correct? ....

Explain your answer.

- 1) No, 8th term is 42,  $2 \times 22 \neq 42$  or  $5n + 2$  is not proportional
- 2) Yes, 12th term is 24,  $2 \times 12 = 24$  or  $2n$  is proportional
- 3) No, 10th term is 34,  $2 \times 19 \neq 34$  or  $3n + 4$  is not proportional
- 4) No, 8th term is 34,  $2 \times 18 \neq 34$  or  $4n + 2$  is not proportional

- 1) No, 8th term is 42,  $2 \times 22 \neq 42$  or  $5n + 2$  is not proportional
- 2) Yes, 12th term is 24,  $2 \times 12 = 24$  or  $2n$  is proportional
- 3) No, 10th term is 34,  $2 \times 19 \neq 34$  or  $3n + 4$  is not proportional
- 4) No, 8th term is 34,  $2 \times 18 \neq 34$  or  $4n + 2$  is not proportional

