Sequences as Functions: Classifying Sequences

A travel agency has a display of brochures describing different vacation destinations. When filled, the first row contains 500 brochures, the second row contains 475 brochures, the third row contains 450 brochures, and so on. When filled, how many brochures are in the 11th row?

Enter your answer in the space provided.

The number of brochures in the 11th row is [_____].

A garden has 12 vegetable plants in the front row, 18 vegetable plants in the second row, 24 vegetable plants in the third row, and so on. How many vegetable plants are in the 14th row?

Drag and drop your answer to correctly complete the sentence.

The number of vegetable plants in the 14th row is [_____].

A hall has 10 seats in the front row, 15 seats in the second row, 20 seats in the third row, and so on.

How many seats are in the 12th row?

Enter your answer in the space provided.

The number of seats in the 12th row is [_____].

Amna has a wall that displays pictures. There is 1 picture in the front row, 4 pictures in the second row, 7 pictures in the third row, and so on. How many pictures are in the 8th row?

Drag and drop your answer to correctly complete the sentence.

The number of pictures in the 8th row is [_____].

A grocery store stacked cereal boxes to promote a new cereal. There are 52 cereal boxes in the front row, 48 cereal boxes in the second row, 44 cereal boxes in the third row, and so on. How many cereal boxes are in the 9th row?

Select your answer from the drop-down menu.

The number of cereal boxes in the 9th row is [_____].

The sequence 10, 8, 6, 4, ...

Drag and drop your answers to correctly complete the sentence.

The sequence is [_____] because it has a common [_____] of

[_____].

| difference | geometric | -2 | -1.25 | arithmetic | 1.25 | ratio | 2 |

Which best describes this sequence?
5, 11, 17, 25, ...

Drag and drop your answer to correctly complete the sentence.

The sequence is [_____].

| arithmetic | neither arithmetic nor geometric | geometric | Fibonacci |