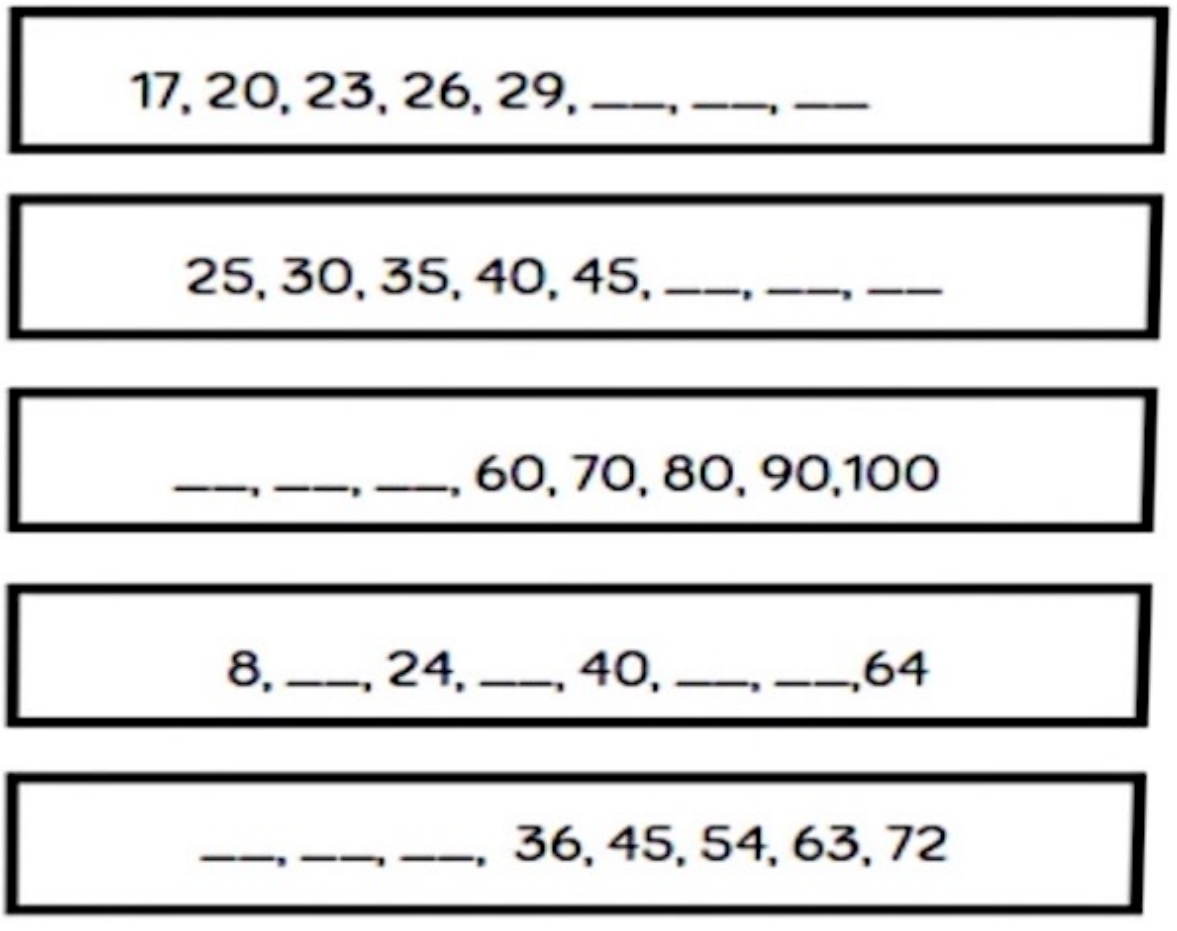
Worksheet: Patterns in Mathematics

Learning Pattern

Q1: Find out the missing numbers and figure out what the pattern rule is for each box



Q2: What happens when you start adding up triangular numbers, i.e., take 1, 1 + 3, 1 + 3 + 6, 1 + 3 + 6 + 10, ... ? Which sequence do you get? Can you explain it using a picture of a triangle?

Fill in the Blanks

Q1: A _____ polygon is a shape with all sides and angles equal.

Q2: The sequence 1, 8, 27, 64, ... represents the _____ of numbers.

Q3: _____ numbers can be represented as dots forming a perfect square.

Q4: The pattern 2, 4, 6, 8, 10, ... is a sequence of _____ numbers.

Q5: _____ numbers increase by the same amount each time, and this sequence is called counting numbers.

True or False

Q1: The sequence 1, 4, 9, 16, 25, ... is an example of cube numbers.

Q2: A regular pentagon has equal sides but different angles.

Q3: The sequence of odd numbers starts with 1, 3, 5, 7, ...