

### ACTIVITY

### TEACHER'S NAME

NAME OF THE ACTIVITY

Květoslava

Pascal's triangle

Time: 20-30 minutes

Language level: Elementary to Upper-Intermediate Language focus: listening to specific understanding

extending Ss' knowledge of vocabulary in mathematics

Aim: Ss will improve their ability to listen for specific details to answer

questions about Pascal's triangle

Ss will extend their knowledge of vocabulary

Ss will follow instructions and answer mathematical questions

Preparation:

Materials:

print worksheet for Ss

worksheet for Ss, coloured pencils

### Procedure:

- Ss work alone
- Ss watch a video about Pascal's triangle and answer 4 questions
- to help Ss understand a vocabulary box is prepared and given to the Ss
- Ss do 4 additional tasks on the worksheet following the instructions regarding what to colour in the Pascal triangle given.
- Feedback: -Ss check in pairs
  - group / class feedback

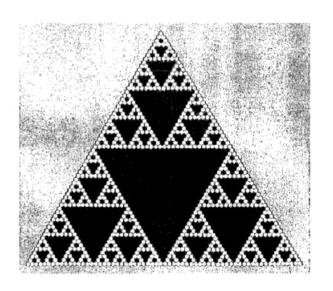


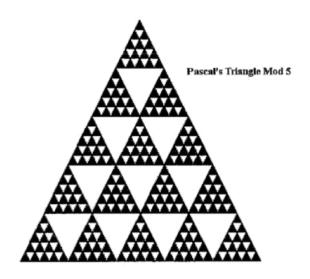
# The mathematical secrets of Pascal's triangle

Listen to the video and then answer the following questions with the help of the vocabulary in the table.

 $\underline{http://ed.ted.com/lessons/the-mathematical-secrets-of-pascal-s-triangle-wajdi-mohamed-ratemi\#watch}$ 

- 1. In which countries was this triangle known?
- 2. The sum of the elements in row n = 3 is the square of ............
- 3. How many teams of two persons can you make from a group of six people?
- 4. How much is 11<sup>5</sup>?





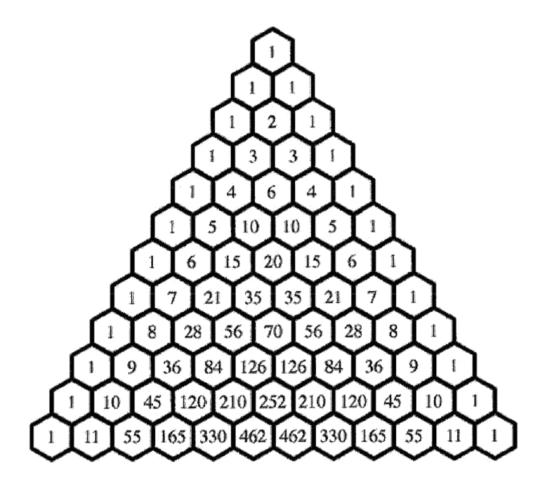
### Vocabulary:

pattern	Vzor	
row	Řada	
binomical expansions	Binomický rozvoj	
add up	Součet	
successive	Následující	
decimal expansion	Dek!adický rozvoj	
integers	Celá čísla	
positive integers	Přirozená čísla	



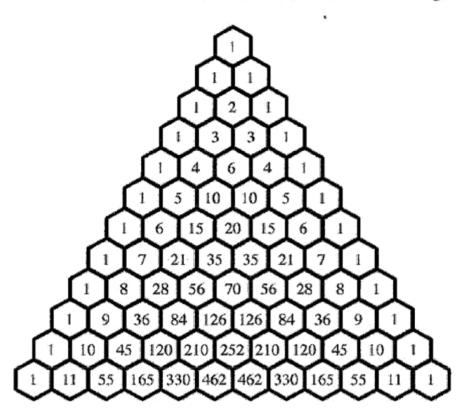
## Do the following tasks:

1. Colour the even numbers in this Pascal triangle.

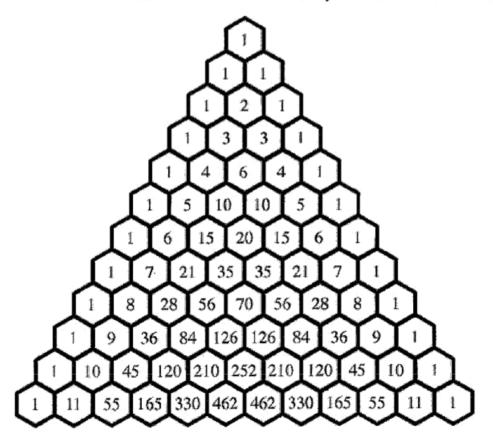




2. Colour the odd numbers in this Pascal triangle.



3. Colour the numbers that can be divided by three in this Pascal triangle.



4. Colour the numbers that can be divided by 5 in this Pascal triangle.

