

Subject: Mathematics

Topic: Patterns and Sequences

Level: S.1

Background information:

This is the third lesson in a series of 6. The activity is for the beginning of a double lesson. The teacher has introduced patterns of figures and polygonal numbers in the previous two lessons.

Learning objectives:

Content:

Students should be able to state different patterns of figures.

Language:

Students should be able to use the following sentence pattern to state different patterns of figures:

If ..., then ...

S1 Mathematics
Patterns of figures
Worksheet 1 for Student A

Name: _____ Class: _____ No.: _____ Date: _____



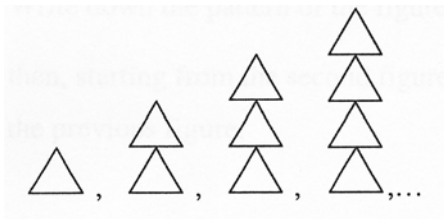
Pair work

Instructions:

1. Work in pairs with Student B who has a different worksheet
2. Complete Questions 1-4.
3. Read aloud what you have written in Questions 1-4 to Student B.
4. Student B guesses and writes down the pattern of figures according to your description.
5. Listen to Student B reading aloud what s/he has written in Questions 5-8.
6. Guess and write down the pattern of figures according to Student B's description.

Questions 1-4

1. Describe the number of triangles in the figures below.



If the first figure has _____, the second figure has _____, the third figure has _____, and the fourth figure has _____,

2. Describe the number of persons in the figures below.



If the first figure has _____, _____

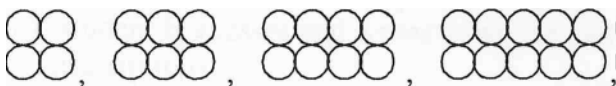
_____.

3. Describe the number of rows and the number of stamps in the figures below.



If the first figure has _____ row of _____ stamps, the second figure has _____

4. Describe the number of coins and the number of contact points in the figures below.



If the first figure has four coins with four contact points, _____

Questions 5-8

Write down the pattern of the figures described by your partner.

5. then each figure is formed by _____ to the previous figure.

6. then _____ by the previous figure.

7. then _____ box of eggs is _____ and the number of eggs _____ by _____.

8. then _____

Form 1 Mathematics
Patterns of figures
Worksheet 1 for Student B

Name: _____ Class: _____ No.: _____ Date: _____



Pair work

Instructions:

1. Work in pairs with Student A who has a different worksheet
2. Complete Questions 5-8.
3. Listen to Student A reading aloud what s/he has written in Questions 1-4.
4. Guess and write down the pattern of figures according to Student A's description.
5. Read aloud what you have written in Questions 5-8 to Student A.
6. Student A guesses and writes down the pattern of figures according to your description.

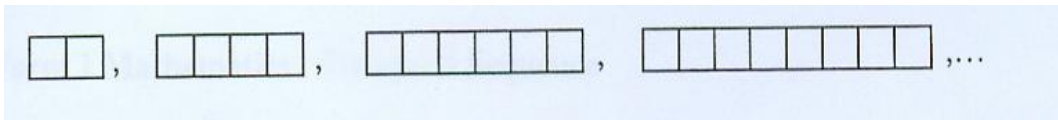
Questions 1-4

Write down the pattern of the figures described by your partner.

1. then each figure is formed by _____ to the previous figure.
2. then _____ by the previous figure.
3. then _____ row of stamps is _____ and the number of stamps _____ by _____.
4. then _____

Questions 5-8

5. Describe the number of squares in the figures below.



If the first figure has _____, the second figure has _____
the third figure has _____, and the fourth figure has _____.

6. Describe the number of stars in the figures below.



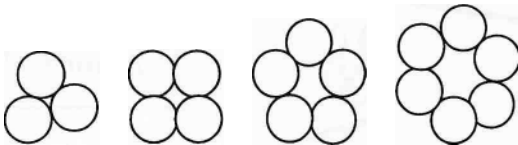
If the first figure has _____, _____

7. Describe the number of boxes and the number of eggs in the figures below.



If the first figure has _____ box of _____ eggs, the second figure has _____

8. Describe the number of coins and the number of contact points in the figures below.



If _____