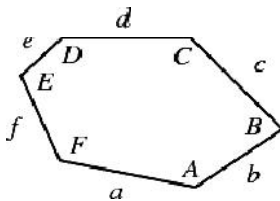
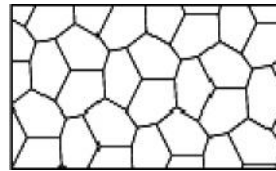
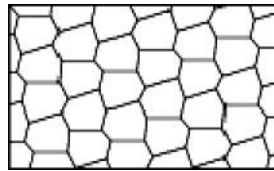
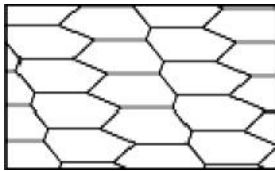


1963

3



$$A + B + C = 360^\circ, \quad a = d$$

$$A + B + D = 360^\circ, \quad a = d, \quad c = e$$

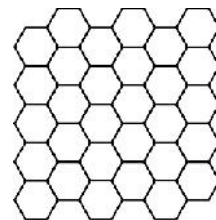
$$A = C = E = 120^\circ, \quad a = b, \quad c = d, \quad e = f$$

),

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$$= B = C = D = E = F \quad a = b = c = d = e = f .$$

$$n - \quad (n \geq 7)$$



23

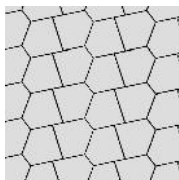
(Karl Reinhardt, 1895 – 1941)

1918

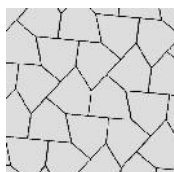
5

5

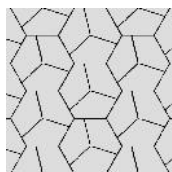
5



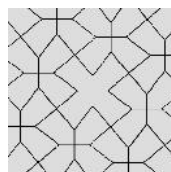
1



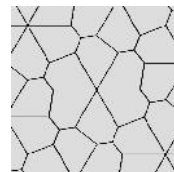
2



3



4



5

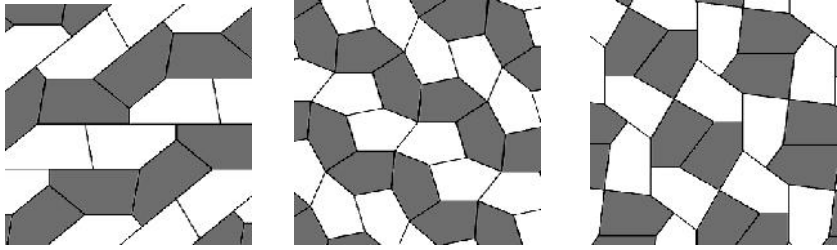
1: $D + E = 180^\circ$;

2: $C + E = 180^\circ$, $a = d$;

3: $A = C = D = 120^\circ$, $a = b$, $d = c + e$;

4: $A = C = 90^\circ$, $a = b$, $c = d$,

5: $C = 2A = 120^\circ$, $a = b$, $c = d$.



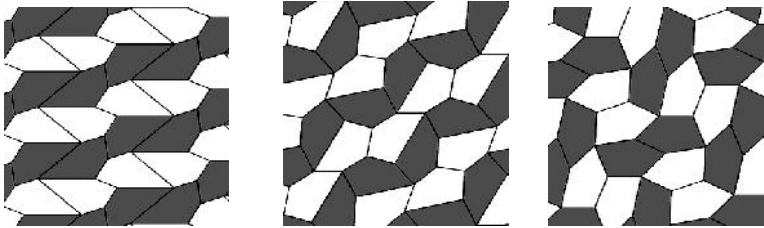
1

2

4

1968

(R. B. Kershner)



6/

7/

8/

:

6: $C + E = 180^\circ$, $A = 2C$, $a = b = e$, $c = d$;

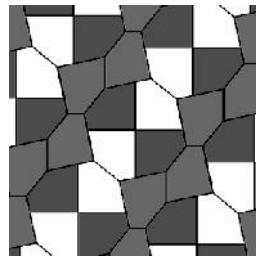
7: $2B + C = 360^\circ$, $2D + A = 360^\circ$, $a = b = c = d$;

8: $2A + B = 360^\circ$, $2D + C = 360^\circ$, $a = b = c = d$.

1975

(Richard James)

$2E + B = 360$, $2D + C = 360$, $a = b = c = d$.

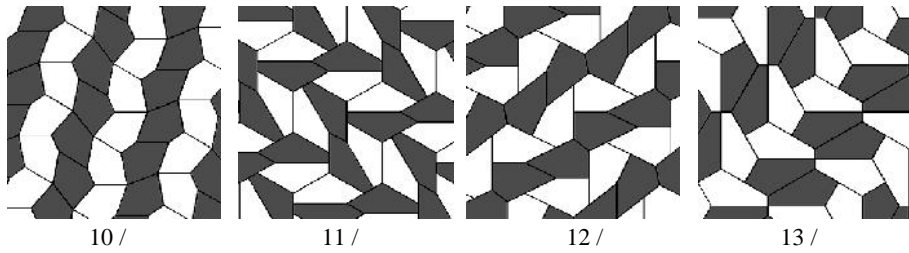


9/

(Marjorie Rice)

Scientific American.

1976 1977



10: $E = 90^\circ, A + D = 180, 2B - D = 180^\circ, 2C + D = 360^\circ, a = e = b + d$;

11: $A = 90^\circ, C + E = 180^\circ, 2B + C = 360^\circ, d = e = 2a + c$;

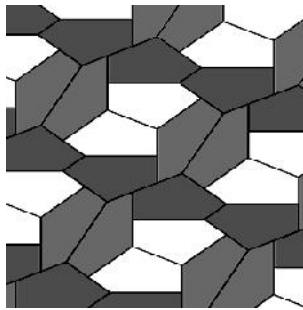
12: $A = 90^\circ, C + E = 180^\circ, 2B + C = 360^\circ, 2a = c + e = d$;

13: $A = C = 90^\circ, 2B = 2E = 360^\circ - D, c = d, 2c = e$.

1985

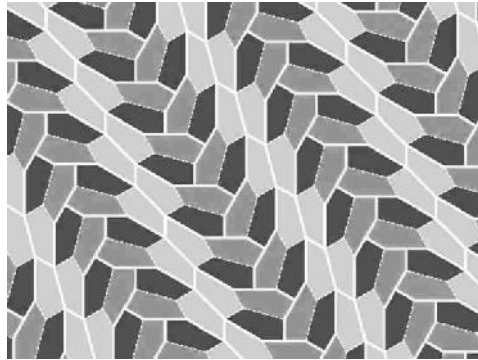
(Rolf Stein)

$D = 90^\circ, 2E + A = 360^\circ, C + A = 180^\circ, B + D + E = 360^\circ, 2e = 2c = a$.

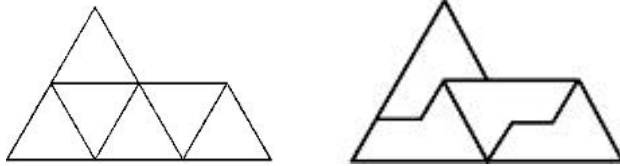


14/

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 , -
 (: Casey Mann, Jennifer McLoud David Von
 Derau), -
 .
 $60^\circ, 135^\circ, 105^\circ, 90^\circ, 150^\circ$,
 $a = c = e, b = 2a$.



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- [1] Jaap Scherphius, *Pentagon Tilings*, www.jaapsch.net/tilings
- [2] Martin Gardner, *Time Travel and Other Mathematical Bewilderments*: W. H. Freeman and Co., 1988. pp. 163-176.
- [3] <http://www.npr.org/sections/thetwo-way/2015/08/14/432015615/with-discovery-3-scientists-chip-away-at-an-unsolvable-math-problem>
- [4] , , 2005
- [5] , +, , 2001

Статијата прв пат е објавен во списанието СИГМА на СММ