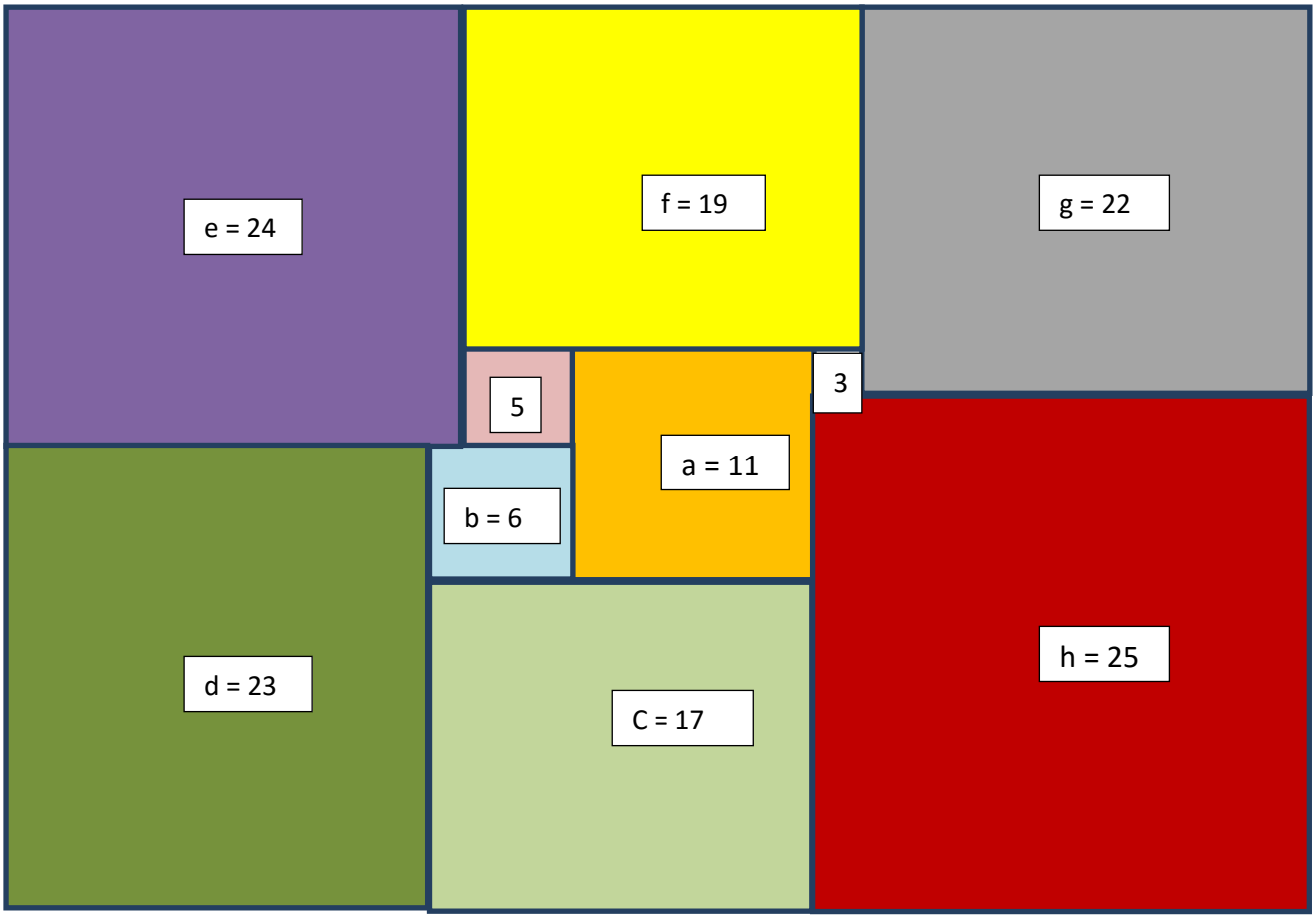
10 Squares Rectangle



Solution: Sizes of squares are

3 x 3

5 x 5

6 x 6

11 x 11

17 x 17

19 x 19

22 x 22

23 x 23

24 x 24

25 x 25

f = a + 5 + 3

f = a + 8 ……..(1)

d + b = e + 5 …… (2)

e = f + 5 …… (3)

b = a – 5 …… (4)

g = f + 3 ……..(5)

a + b = c …….. (6)

d = b + c …… (7)

d + e = g + h …….. (8)

Using (3) and (4) in (2) ,

d + a – 5 = f + 5 + 5

d + a = f + 15

using (1) ,

d + a = a + 8+ 15

d = 23

d + e = g + h

23 + e = g + h

Using (3),

23 + f + 5 = g + h

Using (5),

23 + f + 5 = f + 3 + h

28 = 3 + h

h = 25

Using (4) and (6)

$a + b = c$

$a – b = 5$

$2b = c – 5$

From (7)

$b + c = 23$

$c = 23 – b$

$2b = 23 – b – 5$

$3b = 18$

$b = 6$

using in (6)

$a – 6 = 5$

$a = 11$

using in (7)

$c = 23- 6$

$c = 17$

Using (1)

$f = 11 + 8$

$f = 19$

Using (5)

$g = 19 + 3$

$g = 22$

using (8)

$d + e = g + h$

$23 + e = 22 + 25$

$e = 24$